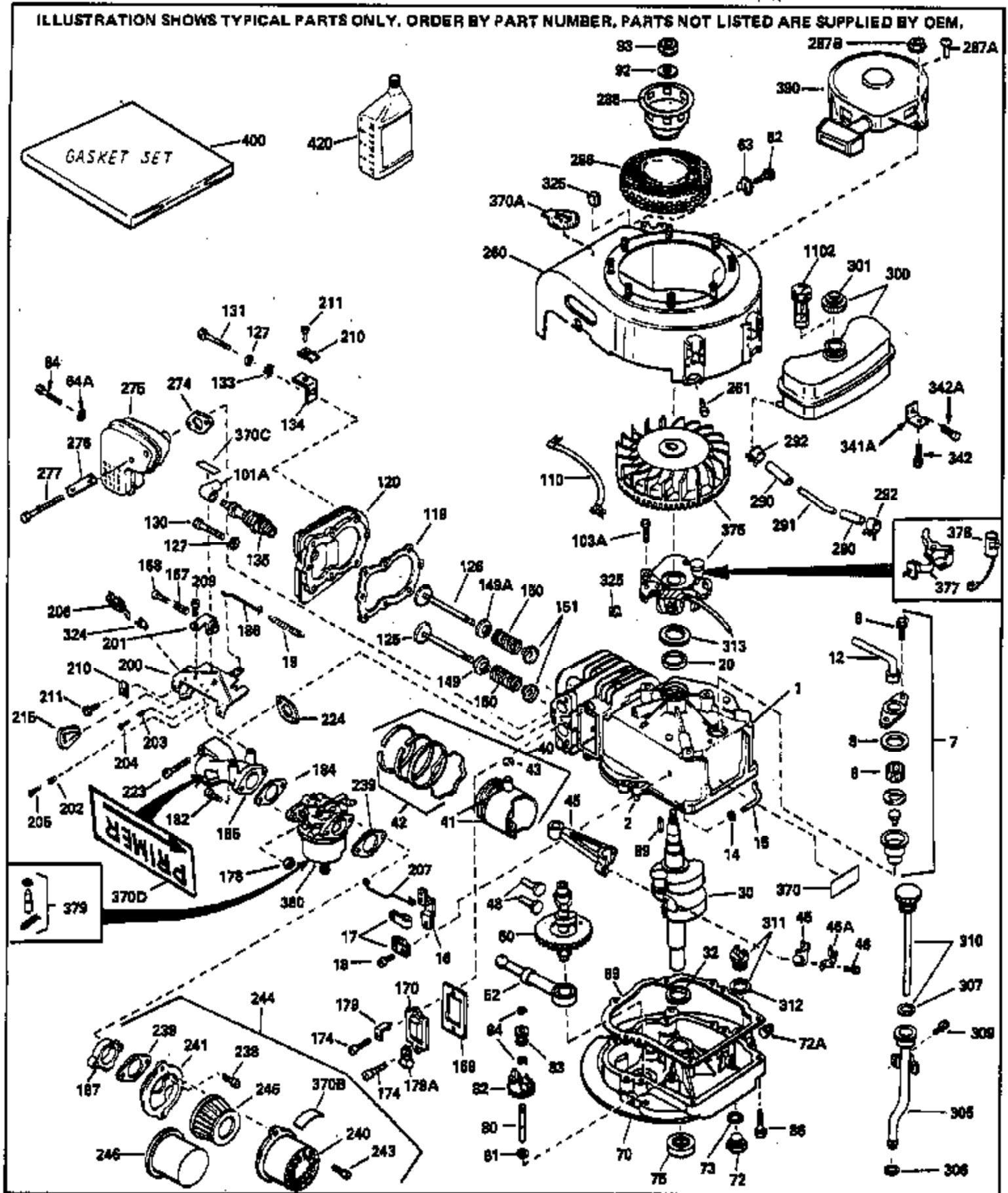




## Engine Parts List #1

| Ref # | Part Number | Qty | Description                                                                                                                                          |
|-------|-------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | 33729A      |     | Cylinder (Incl. 2 & 20) (2-13/16" Bore)                                                                                                              |
| 2     | 26727       |     | Pin, Dowel                                                                                                                                           |
| 6     | 33734       |     | Element, Breather                                                                                                                                    |
| 7     | 34214A      |     | Breather Ass'y. (Incl. 6, 8, 9 & 12)                                                                                                                 |
| 8     | 33735       |     | * Gasket, Breather                                                                                                                                   |
| 9     | 30200       |     | Screw, 10-24 x 9/16"                                                                                                                                 |
| 12    | 33886       |     | Tube, Breather                                                                                                                                       |
| 14    | 28277       |     | Washer, Flat                                                                                                                                         |
| 15    | 31513       |     | Rod, Governor                                                                                                                                        |
| 16    | 32651       |     | Lever, Governor                                                                                                                                      |
| 17    | 31335       |     | Clamp, Governor (Clamp is positioned toward spark plug end on 1977-78 and later models. It is positioned opposite spark plug end on earlier models.) |
| 18    | 650548      |     | Screw, 8-32 x 5/16"                                                                                                                                  |
| 19    | 31361       |     | Spring, Governor                                                                                                                                     |
| 20    | 32600       |     | Seal, Oil                                                                                                                                            |
| 30    | 34832       |     | Crankshaft Ass'y.                                                                                                                                    |
| 40    | 34535       |     | Piston, Pin & Ring Set (Std.) (2-13/16")                                                                                                             |
| 40    | 34536       |     | Piston, Pin & Ring Set (.010" OS)                                                                                                                    |
| 40    | 34537       |     | Piston, Pin & Ring Set (.020" OS)                                                                                                                    |
| 41    | 33562B      |     | Piston & Pin Ass'y. (Std.) (Incl. 43) (2-13/16")                                                                                                     |
| 41    | 33563B      |     | Piston & Pin Ass'y. (.010" OS) (Incl. 43)                                                                                                            |
| 41    | 33564B      |     | Piston & Pin Ass'y. (.020" OS) (Incl. 43)                                                                                                            |
| 42    | 33567       |     | Ring Set (Std.) (2-13/16" Bore)                                                                                                                      |
| 42    | 33568       |     | Ring Set (.010" OS)                                                                                                                                  |
| 42    | 33569       |     | Ring Set (.020" OS)                                                                                                                                  |
| 43    | 20381       |     | Ring, Piston pin retaining                                                                                                                           |
| 45    | 32875       |     | Rod Assy., Connecting (Incl. 18)                                                                                                                     |
| 46    | 32610       |     | Bolt, Connecting rod (Early Production)                                                                                                              |
| 46    | 32610A      |     | Bolt, Connecting rod                                                                                                                                 |
| 46A   | 32609       |     | Plate, Lock (Do not use with No. 32610A locking type bolt.)                                                                                          |
| 48    | 27241       |     | Lifter, Valve                                                                                                                                        |
| 50    | 33154       |     | Camshaft                                                                                                                                             |
| 52    | 29914       |     | Pump Assy., Oil                                                                                                                                      |
| 64A   | 8345        |     | Washer, Flat 1/4"                                                                                                                                    |
| 64    | 30063       |     | Screw, 1/4-20 x 1/2"                                                                                                                                 |
| 69    | 35261       |     | * Gasket, Mounting flange                                                                                                                            |
| 70    | 33521C      |     | Flange Ass'y. (Incl. 58, 72, 75, 80 & 306)                                                                                                           |
| 72    | 30572       |     | Plug, Oil drain (Incl. 73)                                                                                                                           |
| 73    | 28833       |     | * Drain Plug Gasket (Not used w/ plastic plug)                                                                                                       |
| 75    | 26208       |     | Seal, Oil                                                                                                                                            |
| 80    | 30574       |     | Shaft, Mechanical governor                                                                                                                           |
| 81    | 30590A      |     | Washer, Flat                                                                                                                                         |
| 82    | 30591       |     | Gear Assy., Governor (Incl. 81)                                                                                                                      |
| 83    | 30588A      |     | Spool, Governor                                                                                                                                      |
| 84    | 29193       |     | Ring, Retaining                                                                                                                                      |
| 86    | 650488      |     | Screw, 1/4-20 x 1-1/4"                                                                                                                               |
| 89    | 610961      |     | Key, Flywheel                                                                                                                                        |
| 92    | 650815      |     | Washer, Belleville                                                                                                                                   |
| 93    | 650816      |     | Nut, Flywheel                                                                                                                                        |
| 103A  | 650489      |     | Screw, 1/4-20 x 5/8"                                                                                                                                 |
| 119   | 33554A      |     | * Gasket, Cylinder head                                                                                                                              |
| 120   | 33016A      |     | Head, Cylinder (Incl. 131)                                                                                                                           |
| 125   | 32644A      |     | Intake Valve (Std.) (Incl. 151) (Inverted Ports)                                                                                                     |
| 125   | 32645A      |     | Intake Valve (1/32" OS) (Incl. 151) (Inverted Ports)                                                                                                 |
| 126   | 29313C      |     | Exhaust Valve (Std.) (Incl. 151) (Inverted Ports)                                                                                                    |
| 126   | 29315C      |     | Exhaust Valve (1/32" OS) (Incl. 151) (Inverted Ports)                                                                                                |

## Engine Parts List #1

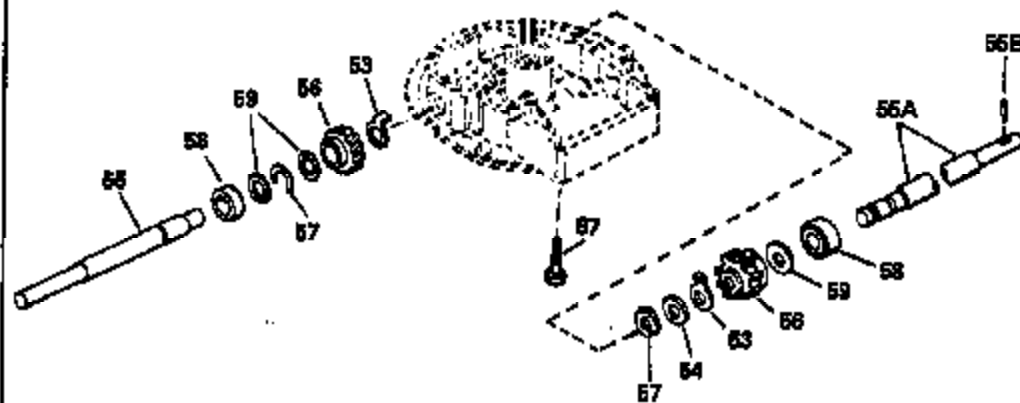
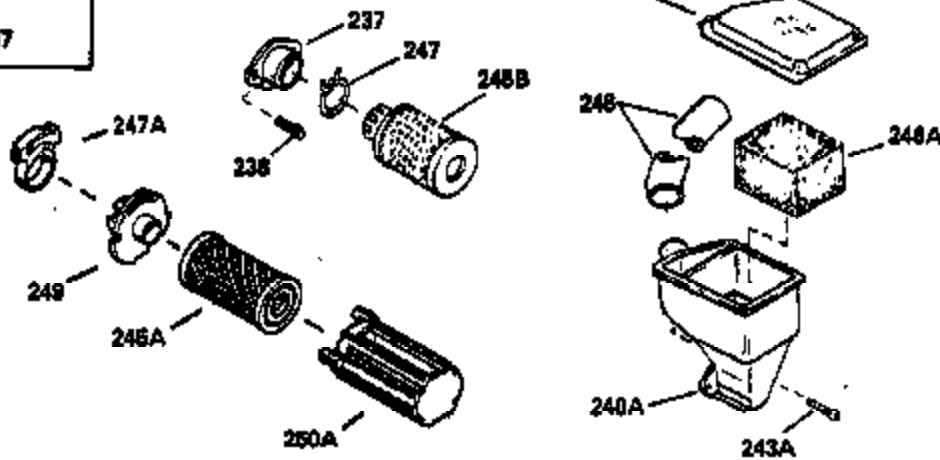
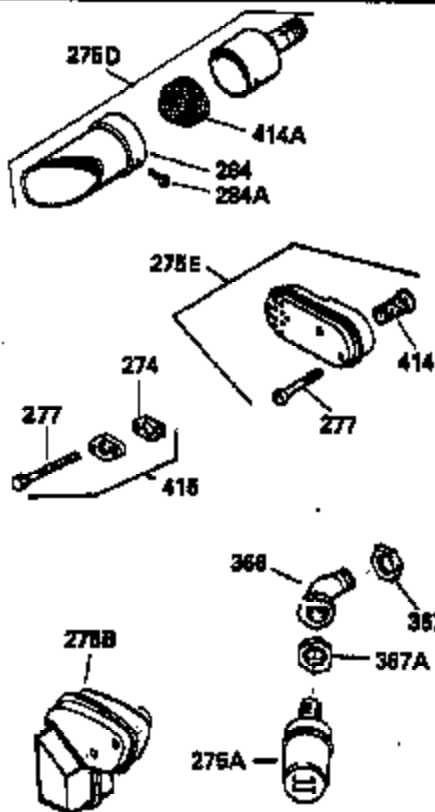
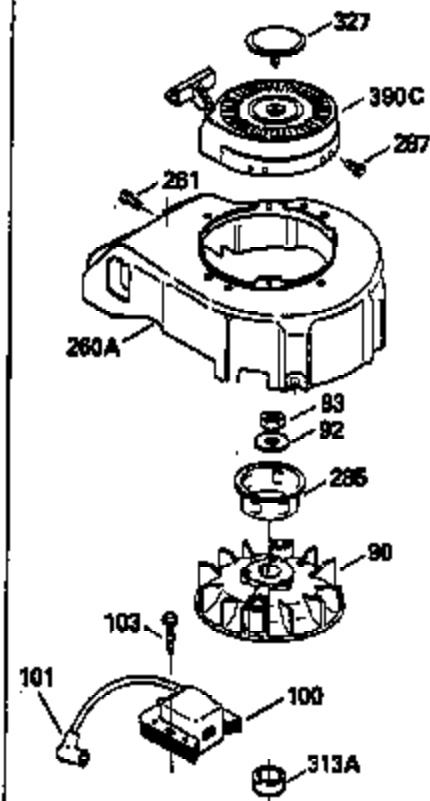
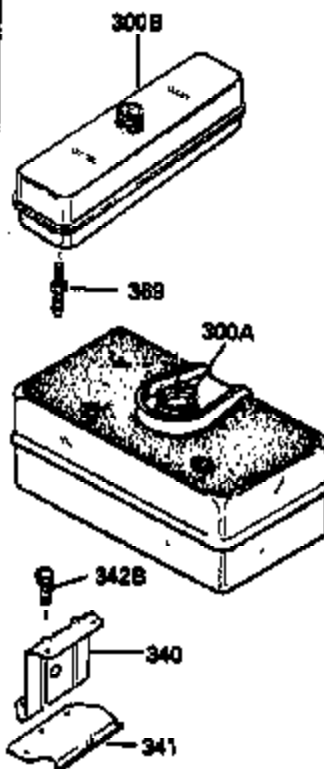
| Ref # | Part Number | Qty | Description                                                                                                                                 |
|-------|-------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------|
| 127   | 26073       |     | Washer, Flat (Not used on late production)                                                                                                  |
| 127   | 650691      |     | Washer, Flat (Use as required)                                                                                                              |
| 130   | 650818      |     | Screw, 5/16-18 x 1-1/2" (Use as required)                                                                                                   |
| 130   | 6021A       |     | Screw, 5/16-18 x 1-1/2" (Use as required)                                                                                                   |
| 131   | 650694A     |     | Screw, 5/16-18 x 2" (Use as required)                                                                                                       |
| 135   | 33636       |     | Plug, Spark (J-8C)                                                                                                                          |
| 149   | 31671       |     | Upper Cap (Int. & Ex.)(Early Production)                                                                                                    |
| 149A  | 33678       |     | Cap, Upper valve spring (Exhaust)                                                                                                           |
| 150   | 31672       |     | Spring, Valve                                                                                                                               |
| 151   | 31673       |     | Cap, Lower valve spring                                                                                                                     |
| 167   | 32924       |     | Spring, Compression                                                                                                                         |
| 168   | 650688      |     | Screw, 10-32 x 1"                                                                                                                           |
| 169   | 27234A      |     | * Gasket, Valve spring cover                                                                                                                |
| 170   | 32755       |     | Cover, Valve spring box                                                                                                                     |
| 174   | 650128      |     | Screw, 10-24 x 1/2"                                                                                                                         |
| 178   | 29752       |     | Nut & Lockwasher Assy.                                                                                                                      |
| 179A  | 34262       |     | Clamp                                                                                                                                       |
| 179   | 30593       |     | Clip, Magneto wire                                                                                                                          |
| 182   | 30088A      |     | Screw, 1/4-28 x 1"                                                                                                                          |
| 185   | 33739       |     | Pipe, Intake                                                                                                                                |
| 186   | 34358       |     | Link, Governor spring                                                                                                                       |
| 200   | 33155A      |     | Control Assy., Speed (Incl. 206)                                                                                                            |
| 201   | 33150       |     | Bracket, Control                                                                                                                            |
| 206   | 610973      |     | Terminal Assy. (Use as required)                                                                                                            |
| 207   | 34336       |     | Link, Throttle                                                                                                                              |
| 209   | 30200       |     | Screw, 10-24 x 9/16"                                                                                                                        |
| 210   | 27793       |     | Clip, Conduit                                                                                                                               |
| 211   | 28942       |     | Screw, 10-32 x 3/8"                                                                                                                         |
| 223   | 650142      |     | Screw, 1/4-20 x 1-1/8"                                                                                                                      |
| 224   | 33751A      |     | * Gasket, Intake                                                                                                                            |
| 238   | 650709      |     | Screw, 10-32 x 7/16"                                                                                                                        |
| 239   | 27272A      |     | * Gasket, Air cleaner                                                                                                                       |
| 244   | 730164      |     | Cleaner Kit (Incl. 238 thru 245 & 370 B) (Use as required)                                                                                  |
| 260   | 33738D      |     | Housing, Blower NOTE: Replacement hardware may differ when servicing starter Assy. or blower housing. Refer to Service Bulletin 508.        |
| 261   | 650831      |     | Screw, 1/4-20 x 15/32"                                                                                                                      |
| 274   | 26754A      |     | * Gasket, Exhaust (Use as required)                                                                                                         |
| 274   | 33670A      |     | * Gasket, Exhaust                                                                                                                           |
| 275   | 35771       |     | Muffler (Incl. 274)                                                                                                                         |
| 276   | 33753       |     | Plate, Lock                                                                                                                                 |
| 277   | 30063       |     | Screw, 1/4-20 x 1/2" (Use as required)                                                                                                      |
| 277   | 650774      |     | Screw, 1/4-20 x 2-3/8"                                                                                                                      |
| 285   | 34694       |     | Cup, Starter                                                                                                                                |
| 286   | 33668       |     | Screen, Starter cup                                                                                                                         |
| 287B  | 29752       |     | Nut & Lockwasher 1/4-28 (Use as required)                                                                                                   |
| 290   | 29774       |     | Fuel Line (Braided 8-1/4") (21 cm)                                                                                                          |
| 290   | 30705       |     | Fuel Line (Braided 16") (40 cm)                                                                                                             |
| 292   | 26460       |     | Clamp, Fuel line                                                                                                                            |
| 301   | 410144B     |     | Cap, Fuel (Standard) (Use as required)                                                                                                      |
| 301   | 33032       |     | Cap, Fuel (Use as required)                                                                                                                 |
| 305   | 34318       |     | Tube Assy., Oil filler (Plastic)                                                                                                            |
| 306   | 34265       |     | Gasket, Oil fill tube                                                                                                                       |
| 306   | 34282       |     | "O" Ring (This "O" ring is required with metal fill tube only when replacement mounting flange with .777 dia. oil fill hole has been used.) |
| 307   | 33590       |     | "O" Ring                                                                                                                                    |

## Engine Parts List #1

| Ref # | Part Number | Qty | Description                                                                                                                                                                                                                                                           |
|-------|-------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 309   | 650562      |     | Screw, 10-32 x 1/2"                                                                                                                                                                                                                                                   |
| 310   | 34319       |     | Dipstick, Oil (Incl. 307) (Twist Lock )                                                                                                                                                                                                                               |
| 313   | 33876       |     | Gasket, Stator                                                                                                                                                                                                                                                        |
| 325   | 27275       |     | Clip, Wire retaining                                                                                                                                                                                                                                                  |
| 325   | 33685       |     | Clip, Wire retaining (Early Production)                                                                                                                                                                                                                               |
| 370   | 34346       |     | Decal, Instruction                                                                                                                                                                                                                                                    |
| 375   | 611025      |     | Magneto NOTE: The complete magneto is not available as an assembly. The magneto number is shown for reference purposes only. Order component parts individually, as shown in parts list. (Refer to Division 5, Section B, page 39 or Fiche 6 Grid G-14 for breakdown) |
| 377   | 30547A      |     | Contact Assy., Breaker                                                                                                                                                                                                                                                |
| 378   | 30548B      |     | Condenser                                                                                                                                                                                                                                                             |
| 379   | 631021      |     | Inlet Needle, Seat & Clip Assy.                                                                                                                                                                                                                                       |
| 380   | 632010      |     | Carburetor (Incl. 184) (Refer to Division 5, Section A, page 150 or Fiche 6 Grid F-1 for breakdown)                                                                                                                                                                   |
| 390   | 590420      |     | Starter, Rewind NOTE: Replacement hardware may differ when servicing starter assy. or blower housing. Refer to Service Bulletin 508. (Refer to Division 5, Section C, page 25 or Fiche 6, Grid G-3 for breakdown)                                                     |
| 400   | 33740D      |     | * Gasket Set (Incl. items marked *)                                                                                                                                                                                                                                   |
| 420   | 730225      |     | SAE 30, 4-Cycle Engine Oil (Quart)                                                                                                                                                                                                                                    |

This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or valve. The components are labeled with reference numerals:

- 389A**: A small pin or screw at the top center.
- 358**: A bracket or support piece below 389A.
- 381**: A vertical assembly consisting of a central shaft, a cylindrical body, and a flange.
- 355A**: A horizontal arm or lever connected to the central shaft of 381.
- 287**: A large, curved, C-shaped component, possibly a bracket or housing.
- 390B**: A small circular component located between 287 and 381.
- 327B**: A small cylindrical component below 390B.
- 286A**: A large circular disc or plate with a central hole.
- 327A**: A small circular component located between 286A and 381.
- 383**: A small circular component below 327A.
- 385**: A vertical assembly consisting of a central shaft, a cylindrical body, and a flange, similar to 381 but with different internal components.
- 361**: A small pin or screw located to the right of 385.
- 392**: A small curved component below 286A.
- 285B**: A large circular disc or plate with a textured, possibly woven, surface.
- 1113**: A small pin or screw at the top of the bottom assembly.
- 1113A**: A small rectangular component below 1113.
- 390A**: A small circular component located between 1113A and 287.
- 287**: A large, curved, C-shaped component, identical to the one in the top left.



## Engine Parts List #2

| Ref # | Part Number | Qty | Description                                                                                                                                                 |
|-------|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 53    | 31745       |     | Washer, Tang                                                                                                                                                |
| 54    | 31787       |     | Washer, Flat                                                                                                                                                |
| 55A   | 33774       |     | Shaft, P.T.O.                                                                                                                                               |
| 56    | 33401       |     | Right Hand Worm Gear                                                                                                                                        |
| 57    | 31749       |     | Ring, Retaining                                                                                                                                             |
| 58    | 31744       |     | Seal, Oil                                                                                                                                                   |
| 59    | 31747       |     | Washer, Flat                                                                                                                                                |
| 87    | 650492      |     | Screw, 1/4-20 x 2-1/4"                                                                                                                                      |
| 92    | 650815      |     | Washer, Belleville                                                                                                                                          |
| 93    | 650816      |     | Nut, Flywheel                                                                                                                                               |
| 237   | 32971       |     | Adapter, Air cleaner (paper)                                                                                                                                |
| 238   | 650709      |     | Screw, 10-32 x 7/16"                                                                                                                                        |
| 245A  | 35066       |     | Filter, Air cleaner                                                                                                                                         |
| 247A  | 35068       |     | Clamp, Air cleaner                                                                                                                                          |
| 249   | 35067       |     | Collar, Air cleaner                                                                                                                                         |
| 250A  | 35065       |     | Cover Assy., Air cleaner                                                                                                                                    |
| 261   | 650831      |     | Screw, 1/4-20 x 15/32"                                                                                                                                      |
| 274   | 26754A      |     | * Gasket, Exhaust (Use as required)                                                                                                                         |
| 274   | 33670A      |     | * Gasket, Exhaust                                                                                                                                           |
| 275D  | 391026      |     | Muffler (Incl. 284, 284A & 414A) (This spark arrester muffler can be used on any model with a 3/4-14 tapped exhaust port.)                                  |
| 275E  | 391020      |     | Muffler (Incl. 277 & 414)                                                                                                                                   |
| 276   | 33753       |     | Plate, Lock                                                                                                                                                 |
| 277   | 30063       |     | Screw, 1/4-20 x 1/2" (Use as required )                                                                                                                     |
| 277   | 650774      |     | Screw, 1/4-20 x 2-3/8"                                                                                                                                      |
| 284   | 33700       |     | Cover & Tube, Muffler (Use as required)                                                                                                                     |
| 284A  | 650578      |     | Screw, 8-18 x 3/8" (Use as required)                                                                                                                        |
| 285   | 34694       |     | Cup, Starter                                                                                                                                                |
| 287   |             |     | Pop Rivet(Purchase locally)(Use as required)                                                                                                                |
| 414A  | 33323       |     | Screen, Muffler (Use as required)                                                                                                                           |
| 415   | 730162      |     | Muffler Adapter Kit (Incl. 121 & 128) (Conventional Ports)                                                                                                  |
| 415   | 730165      |     | Muffler Adapter Kit (Incl. 274 & 277) NOTE: This muffler adapter can be used only on models which have exhaust port on top (above intake). (Inverted Ports) |
| 1113  |             |     | Rivet, Open end (Can be purchased locally)                                                                                                                  |