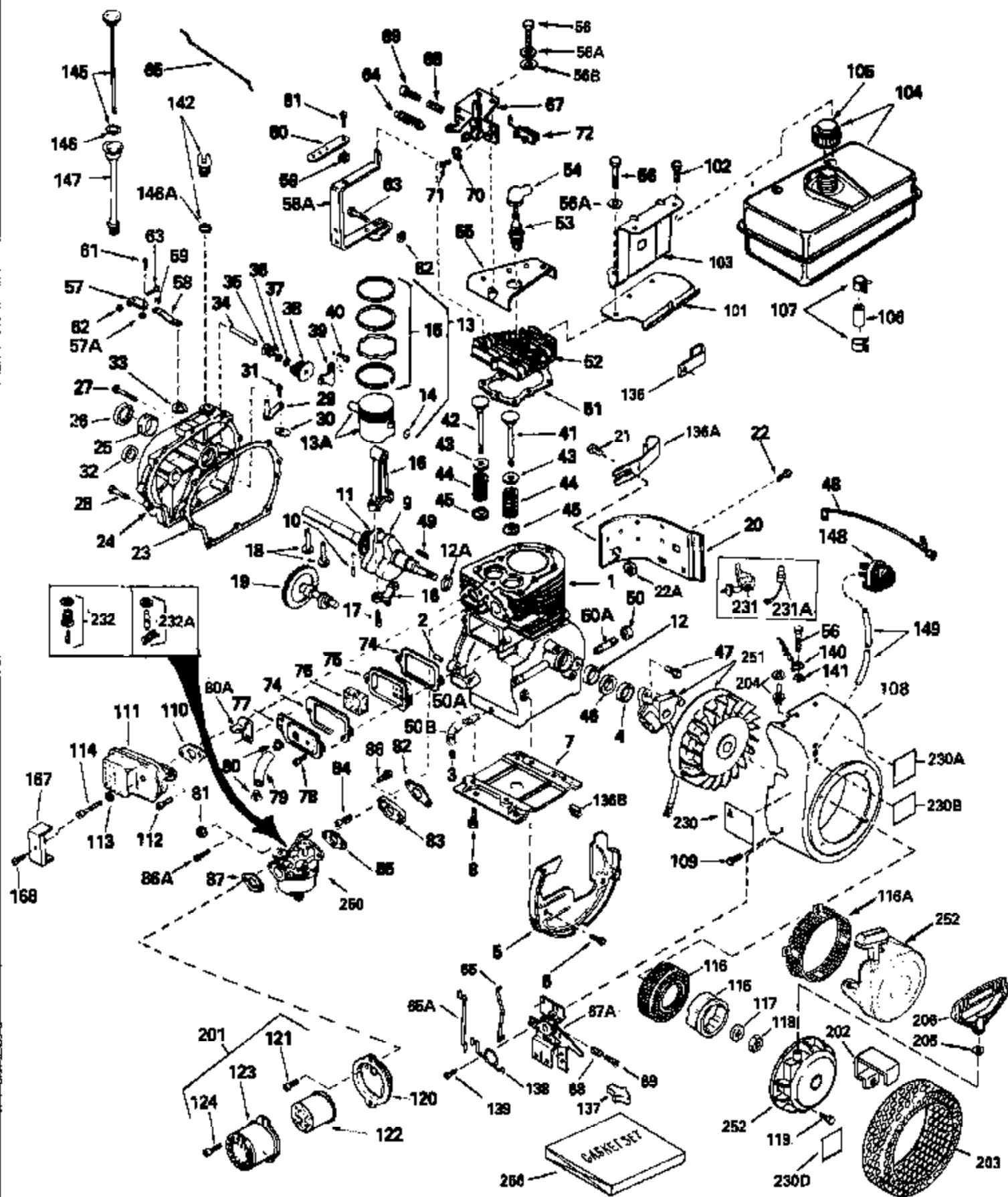


ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY OEM.



| Ref # | Part Number | Qty | Description                                                                                                     |
|-------|-------------|-----|-----------------------------------------------------------------------------------------------------------------|
| 1     | 33311B      |     | Cylinder (Incl. 2, 3, 4 & 41)(2-5/8" Bore)                                                                      |
| 2     | 27652       |     | Pin, Dowel                                                                                                      |
| 3     | 27642       |     | Pipe plug, 1/4-18                                                                                               |
| 4     | 27876B      |     | Seal, Oil                                                                                                       |
| 5     | 29536       |     | Blower Housing Baffle (Without electric starter knock out)<br>(Use as required)                                 |
| 5     | 35256A      |     | Blower Housing Baffle (With electric starter knockout) (As req.)(point ign.)                                    |
| 6     | 650561      |     | Screw, 1/4-20 x 5/8"                                                                                            |
| 7     | 29538       |     | Base, Engine mounting                                                                                           |
| 8     | 650542      |     | Screw, 5/16-18 x 3/4"                                                                                           |
| 9     | 31856A      |     | Crankshaft                                                                                                      |
| 10    | 29783       |     | Pin, Crankshaft gear (Used on early p rod.)                                                                     |
| 11    | 27884       |     | Gear, Crankshaft (Used on early produ ction) This gear is serviceable ONLY when it is pinned to the crankshaft. |
| 13    | 34531       |     | Piston, Pin & Ring Set (Std.) (2-5/8" Bore)                                                                     |
| 13    | 34532       |     | Piston, Pin & Ring Set (.010" OS)                                                                               |
| 13    | 34533       |     | Piston, Pin & Ring Set (.020" OS)                                                                               |
| 13A   | 33312B      |     | Piston & Pin Ass'y. (Std.)(2-5/8")(In cl.14)                                                                    |
| 13A   | 33313B      |     | Piston & Pin Ass'y. (.010" OS) (Incl. 14)                                                                       |
| 13A   | 33314B      |     | Piston & Pin Ass'y. (.020" OS) (Incl. 14)                                                                       |
| 14    | 27888       |     | Ring, Piston pin retaining                                                                                      |
| 15    | 34854       |     | Ring Set (Std.) (2-5/8" Bore)                                                                                   |
| 15    | 34855       |     | Ring Set (.010" OS)                                                                                             |
| 15    | 34856       |     | Ring Set (.020" OS)                                                                                             |
| 16    | 31380C      |     | Rod Assy., Connecting (Incl. 17)                                                                                |
| 17    | 650662C     |     | Bolt, Connecting rod (Incl. 2 pieces)                                                                           |
| 18    | 34034       |     | Lifter, Valve                                                                                                   |
| 20    | 30622A      |     | Extension, Blower housing                                                                                       |
| 21    | 650128      |     | Screw, 10-24 x 1/2"                                                                                             |
| 22    | 650561      |     | Screw, 1/4-20 x 5/8" (Use as required )                                                                         |
| 22    | 30063       |     | Screw, 1/4-20 x 1/2" (Use as required )                                                                         |
| 23    | 30684       |     | Gasket Cylinder Cover                                                                                           |
| 24    | 31303B      |     | Cover, Cylinder (Incl. 26 & 34)                                                                                 |
| 25    | 31546       |     | Bushing, Crankshaft                                                                                             |
| 26    | 28427       |     | Seal, Oil                                                                                                       |
| 27    | 650488      |     | Screw, 1/4-20 x 1-1/4"                                                                                          |
| 28    | 650493      |     | Screw, 1/4-20 x 1-3/4"                                                                                          |
| 29    | 30699C      |     | Rod Assy., Governor (Incl. 30 & 31)                                                                             |
| 30    | 30700       |     | Yoke, Governor                                                                                                  |
| 31    | 650494      |     | Screw, 6-40 x 5/16"                                                                                             |
| 33    | 29642       |     | Ring, Retaining                                                                                                 |
| 34    | 31845       |     | Shaft, Mechanical governor                                                                                      |
| 35    | 30588A      |     | Spool, Governor                                                                                                 |
| 36    | 35479       |     | Washer, Flat                                                                                                    |
| 37    | 29193       |     | Ring, Retaining                                                                                                 |
| 38    | 30591       |     | Gear Assy., Governor                                                                                            |
| 39    | 31843A      |     | Bracket, Governor gear                                                                                          |
| 40    | 650836      |     | Screw, 10-24 x 1/2"                                                                                             |
| 41    | 32783       |     | Intake Valve (Std.)                                                                                             |
| 41    | 32784       |     | Intake Valve (1/32" OS)                                                                                         |
| 42    | 27878A      |     | Exhaust Valve (Std.)                                                                                            |
| 42    | 27880A      |     | Exhaust Valve (1/32" OS)                                                                                        |
| 43    | 27882       |     | Cap, Upper valve spring                                                                                         |
| 44    | 27881       |     | Spring, valve                                                                                                   |
| 45    | 32581       |     | Cap, Lower valve spring                                                                                         |

| Ref # | Part Number | Qty | Description                                                                                                                                                                                                               |
|-------|-------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 46    | 33876       |     | Gasket, Stator                                                                                                                                                                                                            |
| 47    | 650489      |     | Screw, 1/4-20 x 5/8"                                                                                                                                                                                                      |
| 48    | 34240       |     | Ground Wire                                                                                                                                                                                                               |
| 49    | 30884       |     | Key, Flywheel                                                                                                                                                                                                             |
| 50A   | 30968       |     | Nipple, Oil drain 1/4" x 2-1/2"                                                                                                                                                                                           |
| 50    | 30969       |     | Cap, Oil drain                                                                                                                                                                                                            |
| 51    | 28938C      |     | Gasket, Cylinder head                                                                                                                                                                                                     |
| 52    | 30938A      |     | Head, Cylinder                                                                                                                                                                                                            |
| 53    | 34251       |     | Resistor Spark Plug (RJ-17LM)                                                                                                                                                                                             |
| 54    | 610118      |     | Cover, Spark plug (Use as required)                                                                                                                                                                                       |
| 55    | 30939A      |     | Cover Assy., Cylinder head                                                                                                                                                                                                |
| 56    | 650697A     |     | Screw, 5/16-18 x 2-1/2" (Use as required)                                                                                                                                                                                 |
| 56    | 650694A     |     | Screw, 5/16-18 x 2" (Use as required)                                                                                                                                                                                     |
| 56    | 650695A     |     | Screw, 5/16-18 x 2-1/4" (Use as required)                                                                                                                                                                                 |
| 56B   | 650690      |     | Washer, Belleville (Use as required)                                                                                                                                                                                      |
| 56A   | 650691      |     | Washer, Flat (Use as required)                                                                                                                                                                                            |
| 57A   | 30322       |     | Locknut, 8-32                                                                                                                                                                                                             |
| 57    | 29916       |     | Clamp, Governor lever (Use as required)                                                                                                                                                                                   |
| 58    | 33454       |     | Lever Assy., Governor                                                                                                                                                                                                     |
| 59    | 29918       |     | Washer, Lock, No. 8 E.T.                                                                                                                                                                                                  |
| 61    | 650548      |     | Screw, 8-32 x 5/16"                                                                                                                                                                                                       |
| 62    | 29216       |     | Locknut, 10-32                                                                                                                                                                                                            |
| 63    | 29826       |     | Screw, 10-32 x 3/4"                                                                                                                                                                                                       |
| 65A   | 34661       |     | Link, Governor                                                                                                                                                                                                            |
| 65    | 34662       |     | Link, Throttle                                                                                                                                                                                                            |
| 67A   | 34664       |     | Control Bracket (Incl. 68, 69, 72 & 138)                                                                                                                                                                                  |
| 68    | 31342       |     | Spring, Compression                                                                                                                                                                                                       |
| 69    | 650549      |     | Screw, 5-40 x 7/16"                                                                                                                                                                                                       |
| 70    | 27793       |     | Clip, Conduit                                                                                                                                                                                                             |
| 71    | 28942       |     | Screw, 10-32 x 3/8"                                                                                                                                                                                                       |
| 72    | 610973      |     | Terminal Assy. (Use as required)                                                                                                                                                                                          |
| 74    | 27896A      |     | Gasket, Valve chamber cover                                                                                                                                                                                               |
| 75    | 28423       |     | Breather Assy., Valve                                                                                                                                                                                                     |
| 76    | 28424       |     | Element, Breather                                                                                                                                                                                                         |
| 77    | 28425       |     | Cover, Valve spring box                                                                                                                                                                                                   |
| 78    | 650128      |     | Screw, 10-24 x 1/2"                                                                                                                                                                                                       |
| 79    | 35350       |     | Tube Breather                                                                                                                                                                                                             |
| 82    | 27915A      |     | * Gasket, Intake pipe to cylinder                                                                                                                                                                                         |
| 83    | 34712       |     | Flange, Carburetor (Incl. 86A)                                                                                                                                                                                            |
| 84    | 30196       |     | Screw, 5/16-18 x 3/4"                                                                                                                                                                                                     |
| 85    | 31688A      |     | * Gasket, Carburetor                                                                                                                                                                                                      |
| 86A   | 650517      |     | Screw, 1/4-20 x 13/16"                                                                                                                                                                                                    |
| 87    | 27272A      |     | * Air Cleaner Gasket (Use as required)                                                                                                                                                                                    |
| 87    | 30767       |     | Spacer, Cleaner (Use as required)                                                                                                                                                                                         |
| 94A   | 34819       |     | Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only)                                                                                                                                          |
| 101   | 34158       |     | Bracket, Fuel tank                                                                                                                                                                                                        |
| 102   | 650665      |     | Screw, 1/4-14 x 7/8"                                                                                                                                                                                                      |
| 103   | 34159       |     | Plate, Fuel tank mounting                                                                                                                                                                                                 |
| 104   | 34186A      |     | Fuel Tank (Incl. 105 & 107) NOTE: These tanks were built with different size fuel inlet openings. Tanks with the 1-3/16" I.D. opening use fuel cap 33032 or 34210. Tanks with the 1-1/2" I.D. opening use fuel cap 35355. |
| 105   | 410144B     |     | Fuel Cap (White Plastic)(Std.)(As required)                                                                                                                                                                               |
| 105   | 33032       |     | Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as required)                                                                                                                                                   |

| Ref # | Part Number | Qty | Description                                                                  |
|-------|-------------|-----|------------------------------------------------------------------------------|
| 105   | 34210       |     | Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)     |
| 105   | 35355       |     | Fuel Cap (Red plastic) (Use as required)                                     |
| 106   | 29774       |     | Fuel Line (Braided, 8 1/4") (Use as required)                                |
| 106   | 30962       |     | Fuel Line (Braided, 32") (Use as required)                                   |
| 107   | 26460       |     | Clamp, Fuel line (Use as required)                                           |
| 108   | 32158E      |     | Blower Housing (For electric starter)                                        |
| 109   | 29747B      |     | Screw, 5/16-24 x 21/32"                                                      |
| 110   | 27930A      |     | * Gasket, Exhaust flange                                                     |
| 111   | 32401       |     | Muffler                                                                      |
| 111C  | 391026      |     | Opt.Spark Arrest Muf.(Incl.143,143A,1 43B)                                   |
| 111D  | 33714       |     | Opt.Spark Arrest Muf.(Incl.112,143,14 4,144A)                                |
| 111E  | 34390       |     | Deflector, Exhaust (Optional)                                                |
| 112   | 30196       |     | Screw, 5/16-18 x 3/4"                                                        |
| 113   | 26073       |     | Washer, Flat                                                                 |
| 114   | 650694A     |     | Screw, 5/16 - 18 x 2"                                                        |
| 115   | 32125       |     | Cup, Starter                                                                 |
| 116   | 590417      |     | Screen, Starter cup                                                          |
| 117   | 650815      |     | Washer, Belleville                                                           |
| 118   | 8116        |     | Nut, Hex                                                                     |
| 119   | 29716       |     | Screw, 1/4-28 x 7/16"                                                        |
| 137   | 35438       |     | Knob, Speed control                                                          |
| 138   | 34663       |     | Spring, Speed control                                                        |
| 139   | 650821      |     | Screw, 10-32 x 1/2"                                                          |
| 143A  | 33171       |     | Screen, Muffler (Use as required)                                            |
| 143B  | 33185       |     | Cover & tube, Muffler (Use as required)                                      |
| 143   | 650578      |     | Screw, 8-18 x 3/8" (Use as required)                                         |
| 144   | 33700       |     | Cover & Tube, Muffler (Use as required)                                      |
| 144A  | 33323       |     | Screen, Muffler (Use as required)                                            |
| 145   | 34011A      |     | Dipstick (Incl. 146)                                                         |
| 146   | 33590       |     | "O" Ring                                                                     |
| 147   | 33893A      |     | Oil Fill Tube                                                                |
| 148A  | 570629A     |     | Primer Assy.                                                                 |
| 149   | 32180C      |     | Line, Primer                                                                 |
| 151   | 34672       |     | Cover, Carburetor                                                            |
| 153   | 650764      |     | Nut, "U" Clip                                                                |
| 154   | 650760      |     | Screw, 8-32 x 3/8"                                                           |
| 155   | 34126       |     | Bracket, Grommet mounting                                                    |
| 156   | 650257      |     | Screw, 8-32 x 5/16"                                                          |
| 157   | 650765      |     | Screw, 10-32 x 1/2"                                                          |
| 158   | 28820       |     | Screw, 10-32 x 1/2"                                                          |
| 159   | 32398       |     | Bracket, Choke                                                               |
| 160   | 650760      |     | Screw, 8-32 x 3/8"                                                           |
| 161   | 28545       |     | Grommet, Plastic                                                             |
| 162   | 31680       |     | Guard, Starter                                                               |
| 163   | 32576       |     | Seal, Snow Guard                                                             |
| 164   | 33013       |     | Cover, Starter bubble                                                        |
| 165   | 650760      |     | Screw, 8-32 x 3/8"                                                           |
| 167   | 34174       |     | Deflector, Exhaust                                                           |
| 168   | 650665      |     | Screw, 1/4-15 x 7/8"                                                         |
| 182   | 32961       |     | Valve, Fuel shut off                                                         |
| 201   | 730164      |     | Air Cleaner Ass'y. (Red Poly)(Incl.87,120,121,122,123,124 & 230)(As req.)    |
| 201   | 730164      |     | Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123 & 124) (Use as required) |

| Ref # | Part Number | Qty | Description                                                                                                                                                                                                                                                                                                  |
|-------|-------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 201B  | 730561      |     | Air Cleaner Kit<br>(Incl.74,79,80,87,88,89,90,91,92,94,95,96,97,99,100 & 230C)<br>(Used only on engine with an externally vented fully adjustable carburetor)                                                                                                                                                |
| 201A  | 730130      |     | Muffler Adapter Kit (Incl.110,112)(As req.)                                                                                                                                                                                                                                                                  |
| 230   | 34416       |     | Decal, Instruction                                                                                                                                                                                                                                                                                           |
| 230F  | 34414       |     | Decal, Warning                                                                                                                                                                                                                                                                                               |
| 230B  | 34417       |     | Decal, Primer                                                                                                                                                                                                                                                                                                |
| 230E  | 34418       |     | Decal, Choke                                                                                                                                                                                                                                                                                                 |
| 231A  | 30548B      |     | Condenser                                                                                                                                                                                                                                                                                                    |
| 231   | 30547A      |     | Breaker Assy (Used on Std. Point igni tion)                                                                                                                                                                                                                                                                  |
| 232A  | 631021      |     | Inlet, Needle Seat & Clip Assy.                                                                                                                                                                                                                                                                              |
| 240   | 611077      |     | Alternator (Optional)                                                                                                                                                                                                                                                                                        |
| 241   | 650868      |     | Screw, 8-18 x 1-1/8" (3 required)(Opt .)                                                                                                                                                                                                                                                                     |
| 242   | 611078      |     | Connector, A.C. Lighting (Optional)                                                                                                                                                                                                                                                                          |
| 242   | 611079      |     | Connector, D.C. Charging (Optional)                                                                                                                                                                                                                                                                          |
| 243   | 590610      |     | Tube, Centering (Optional)                                                                                                                                                                                                                                                                                   |
| 244   | 590613      |     | Alternator Shaft (Optional)                                                                                                                                                                                                                                                                                  |
| 250   | 631927      |     | Carburetor (Incl. 85) (Refer to Division 5, Section A, Page 140 for breakdown)                                                                                                                                                                                                                               |
| 251   | 610964A     |     | Magneto (w/ring gear for 120 volt sta rter) 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 24 for breakdown)                         |
| 252   | 590473      |     | Rewind Starter (Refer to Division 5, Section C, page 29 for breakdown)                                                                                                                                                                                                                                       |
| 254   | 33328D      |     | Starter Motor Kit (110-120 volt) This 110-120 volt starter motor kit may have been added to this engine. It can be added only if cylinder hasdrilled and tapped starter mounting bosses and a ring gear flywheel (see#255). Refer to service number stamped on end cap of motor or on decal for identifi cat |
| 255   | 30811A      |     | Flywheel (Ring gear flywheel requiredon engines using 110-120 volt starter motor kits listed above) (Used on Std. point ignition before 1982)                                                                                                                                                                |
| 255   | 611042      |     | Flywheel (Ring gear flywheel requiredon engines using 110-120 volt starter motor kits listed above) (Used on Std. point ignition 1982 or later)                                                                                                                                                              |
| 255   | 611085      |     | Flywheel (Minimum ring gear flywheel required on engines using 110-120 volt starter motor kits listed above) (Used on solid state external ignition)                                                                                                                                                         |
| 256   | 33235A      |     | Gasket Set (Incl. items marked*)                                                                                                                                                                                                                                                                             |