

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



| Ref # | Part Number | Qty | Description  |
|-------|-------------|-----|--|
| 1     | 35123A      |     | Cylinder (Incl. 2, 3 & 4) (2-5/8" Bore)  |
| 2     | 27652       |     | Pin, Dowel   |
| 3     | 27642       |     | Pipe plug, 1/4-18  |
| 4     | 32630       |     | Seal, Oil  |
| 5     | 29536       |     | Blower Housing Baffle (Without electric starter knockout) (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     | 35470A      |     | Crankshaft   |
| 10    | 29783       |     | Pin, Crankshaft gear (Used on early p rod.)  |
| 11    | 27884       |     | Gear, Crankshaft (Used on early production) This gear is serviceable ONLY when it is pinned to the crankshaft. |
| 13A   | 33312B      |     | Piston & Pin Ass'y. (Std.)(2-5/8")(Incl.14)  |
| 13A   | 33313B      |     | Piston & Pin Ass'y. (.010" OS) (Incl. 14)  |
| 13A   | 33314B      |     | Piston & Pin Ass'y. (.020" OS) (Incl. 14)  |
| 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)  |
| 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    | 31295C      |     | Rod Assy., Connecting (Incl. 17)   |
| 17    | 650662C     |     | Bolt, Connecting rod (Incl. 2 pieces)  |
| 18    | 34034       |     | Lifter, Valve  |
| 19    | 33156       |     | Camshaft   |
| 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    | 31451A      |     | Cylinder Cover (Incl.26, 34, 127A, 129 & 130)  |
| 26    | 28460       |     | 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)   |

| Ref # | Part Number | Qty | Description   |
|-------|-------------|-----|---|
| 43    | 27882       |     | Cap, Upper valve spring   |
| 44    | 27881       |     | Spring, valve   |
| 45    | 32581       |     | Cap, Lower valve spring   |
| 47    | 650814      |     | Screw, 10-24 x 1"   |
| 48    | 35187       |     | Wire, Ground  |
| 49    | 32589       |     | Key, Flywheel   |
| 51    | 28938C      |     | Gasket, Cylinder head   |
| 52    | 30938A      |     | Head, Cylinder  |
| 53    | 33636       |     | Resistor Spark Plug (RJ-8C)   |
| 54    | 610118      |     | Cover, Spark plug (Use as required)   |
| 55    | 30939A      |     | Cover Assy., Cylinder head  |
| 56A   | 650691      |     | Washer, Flat (Use as required)  |
| 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)  |
| 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   | 34677       |     | Control Bracket (Incl. 68, 69, 72 & 138)  |
| 68    | 31342       |     | Spring, Compression   |
| 69    | 650549      |     | Screw, 5-40 x 7/16"   |
| 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)<br>(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   | 35355       |     | Fuel Cap (Red plastic) (Use as required)  |
| 105   | 410144B     |     | Fuel Cap (White Plastic)(Std.)(As required)   |

| Ref # | Part Number | Qty | Description   |
|-------|-------------|-----|---|
| 105   | 33032       |     | Fuel Cap (Red Plastic) (Spurt resistant, Low profile)<br>(Use as required)  |
| 105   | 34210       |     | Fuel Cap (Red Plastic) (Spurt resistant, High profile)<br>(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"   |
| 111E  | 34390       |     | Deflector, Exhaust (Optional)   |
| 111D  | 33714       |     | Opt. Spark Arrest Muf. (Incl. 112, 143, 144, 144A)  |
| 111C  | 391026      |     | Opt. Spark Arrest Muf. (Incl. 143, 143A, 143B)  |
| 111A  | 29633       |     | Muffler   |
| 115   | 32125       |     | Cup, Starter  |
| 116   | 35009       |     | Screen, Starter cup   |
| 117   | 650815      |     | Washer, Belleville  |
| 118   | 8116        |     | Nut, Hex  |
| 119   | 29716       |     | Screw, 1/4-28 x 7/16"   |
| 120   | 31691       |     | Bracket, Air cleaner  |
| 121   | 28820       |     | Screw, 10-32 x 1/2"   |
| 122   | 31700       |     | Element, Air cleaner  |
| 123   | 31715       |     | Body, Air cleaner   |
| 124   | 650152      |     | Screw, 8-32 x 3/8"  |
| 127A  | 31855       |     | Retainer, Bearing   |
| 127   | 31793       |     | Bearing, Ball   |
| 128   | 31792       |     | Washer, Thrust  |
| 129   | 650778      |     | Washer, Lock  |
| 130   | 650580      |     | Nut, Lock   |
| 137   | 32410       |     | 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   | 31297       |     | Dipstick (Incl. 146A)   |
| 146A  | 29673       |     | * Gasket, Oil fill  |
| 169   | 32862       |     | Nut, Conduit  |
| 170   | 30244       |     | Nipple, Pipe  |
| 171   | 29574       |     | Elbow, 45-degree  |
| 201A  | 730130      |     | Muffler Adapter Kit (Incl. 110, 112) (As req.)  |
| 201B  | 730561      |     | Air Cleaner Kit<br>(Incl. 74, 79, 80, 87, 88, 89, 90, 91, 92, 94, 95, 96, 97, 99, 100<br>& 230C) (Used only on engine with an externally<br>vented fully adjustable carburetor) |
| 201   | 730164      |     | Air Cleaner Ass'y. (Red<br>Poly) (Incl. 87, 120, 121, 122, 123, 124 & 230) (As req.)  |
| 201   | 730164      |     | Air Cleaner Kit, Mini bike (Incl. 87, 120, 121, 122, 123 &<br>124) (Use as required)  |
| 209   | 611084      |     | Flywheel  |
| 210   | 650872      |     | Stud, Solid State mounting  |
| 211   | 34443A      |     | Solid State Assy. (Incl. 54)  |

| Ref # | Part Number | Qty | Description   |
|-------|-------------|-----|---|
| 230B  | 34144       |     | Decal, Control  |
| 230A  | 34686       |     | Decal, Name   |
| 230   | 34346       |     | Decal, Instruction  |
| 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   | 632230      |     | Carburetor (Incl. 85) (Refer to Division 5, Section A, Page 182 for breakdown)  |
| 252   | 590420A     |     | Rewind Starter (Refer to Division 5, Section C, page 25 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 identificat |
| 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*)  |