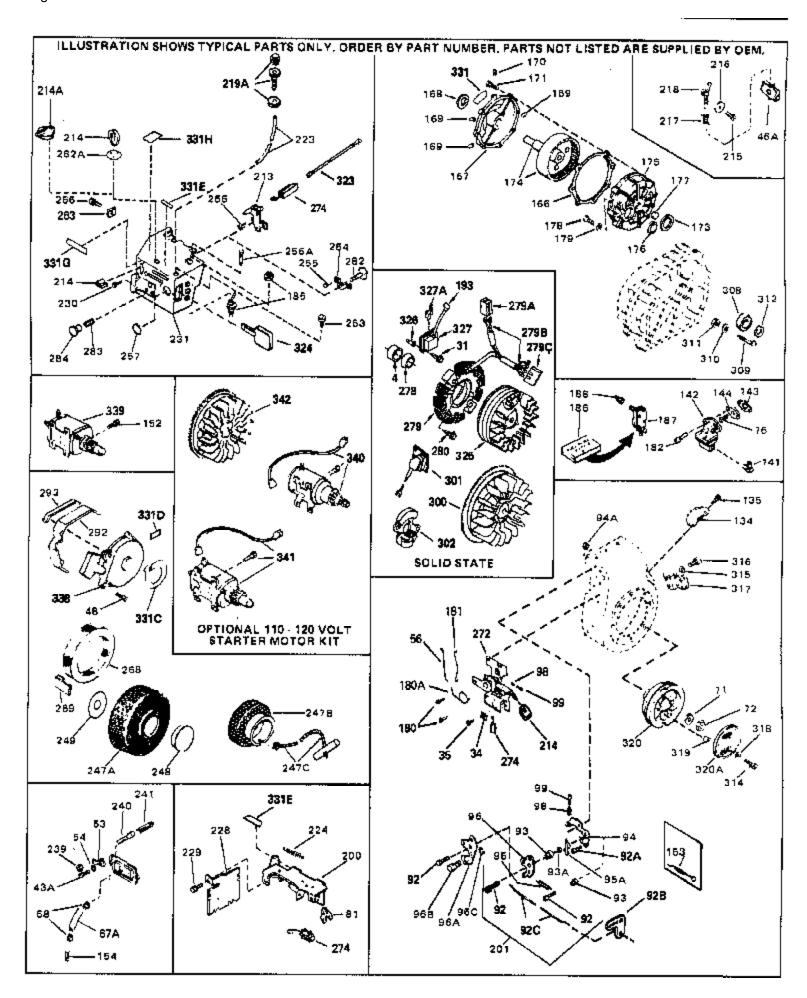


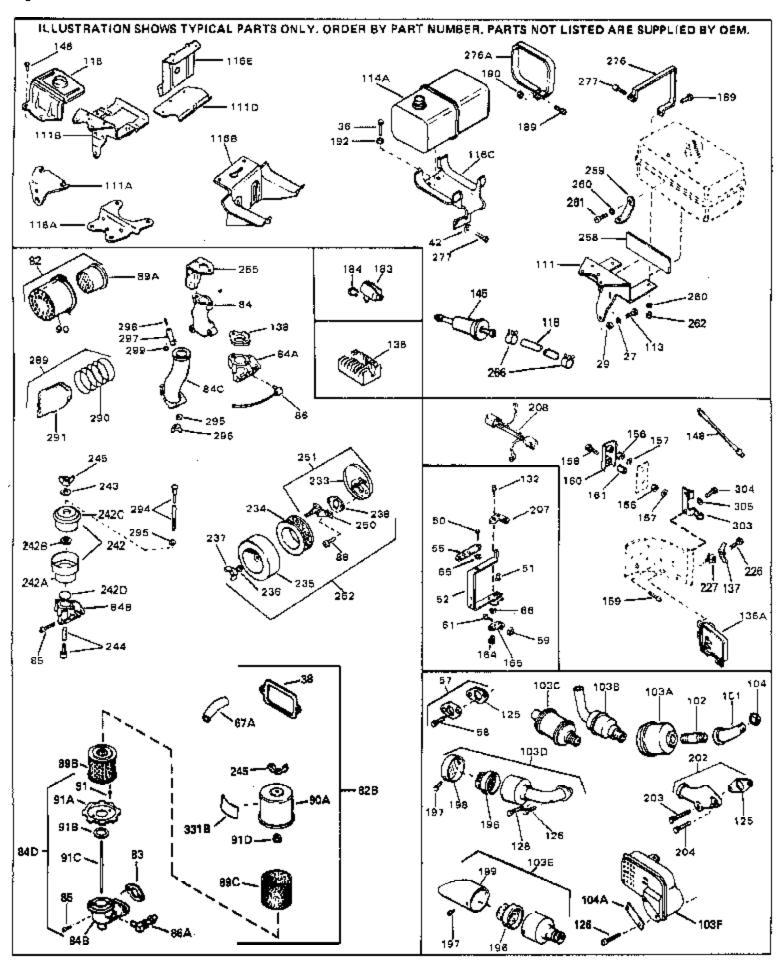
| Ref # Part Number  |     |         |     |   |
|--|-----|---------|-----|---|
| 2 27652 Pin, Dowel 3 27642 Plug, Oil drain 4 23630 Seal, Oil Intake Valve (Sid.) (Incl. 9) 15 22783 Intake Valve (Sid.) (Incl. 9) 6 27878A Exhaust Valve (Sid.) (Incl. 9) 6 27878A Exhaust Valve (Sid.) (Incl. 9) 7 27882 Cap, Upper valve spring 7 A 20810 Pin, Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 9 32581 Spring, Valve 9 32581 Cap, Lower valve spring 10A 32581 Cap, Lower valve spring 10A 32581 Cap, Lower valve spring 10A 32590 Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 10 3422 Dipper, Oil 11 32844 Cranicater (Incl. 12 & 13) 12 27884 Carket (Incl. 12 & 13) 13 27884 Cranicater (Incl. 12 & 13) 14 34517 Plate, Incl. 14 34518 Plate, Incl. 14 34519 14 34519 Plate, Incl. 14 Ring Set (Id) (2-34* Bore) 14A 32593B Plate, Incl. 14 Ring Set (Id) (2-34* Bore) 14A 32593B Plate, Incl. 14 Ring Set (Id) (2-34* Bore) 14A 32594B Plate, Incl. 14 Ring Set (Id) (2-34* Bore) 15 32596 Ring Set (Oil (Incl. 16) 16 32596 Ring Set (Oil (Incl. 16) 17 32591C Rod Set (Incl. 16) 18 60063C Set (Incl. 16) 18 60063C Set (Incl. 16) 19 Ing Set (Id) (Col. 16) 19 Ing Set (Id |     |         | Qty |   |
| 3 27642 Plug, Oil drain 4 32630 Seal, Oil 5 32783 Intake Valve (Std.) (Incl. 9) 5 32784 Intake Valve (Std.) (Incl. 9) 6 27878A Exhaust Valve (Std.) (Incl. 9) 6 27880A Exhaust Valve (Std.) (Incl. 9) 7 27882 Cap, Upper valve spring 7A 20810 Pin, Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 8 27881 Spring, Valve 9 32581 Cap, Lower valve spring 10A 32581 Cap, Lower valve spring 10A 32590 Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper to 650662C screw must be used.) 10 34242 Dipper, Oil 11 32844 Crankshaft (Incl. 12 & 13) 12 28783 Crankshaft (Used in early production) 13 27884 Car, Lower Valve spring 14 34517 Piston, Pin & Ring Set (Std.) (2-34" Bore) 14 34519 Piston, Pin & Ring Set (Std.) (2-34" Bore) 14 34519 Piston, Pin & Ring Set (Oth" O'S) 14 32593B Piston, Pin & Ring Set (Oth" O'S) 14 32594B Piston & Pin Assy. (Oth" O'S) (Incl. 16) 15 32595 Ring Set (Std.) (2-34" Bore) 16 27886 Ring, Piston & Pin Assy. (Coth" O'S) (Incl. 16) 17 32597 Ring Set (Std.) (2-34" Bore) 18 600662C Screw Cornecting Incl. 10 & 18) 19 10 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 10 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 19 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 11 Cardinal Ring Set (Coth" O'S) 11 Cardinal Ring Set (Coth" O'S) (Incl. 16) 11 Cardinal Ring Set (Coth" O'S) 11 Cardinal Ring Set (Coth" O'S) 11 Cardinal Ring Set (Coth" O'S) 12 Cardinal Ring Set (Coth" O'S) 13 Cardinal Ring Set (Coth" O'S) 14 Cardinal Ring Set (Coth" O'S) 15 Cardinal Ring Set (Coth" O'S) 16 Cardinal Ring Set (Coth" O'S) 17 Cardinal Ring Set (Coth" O |     |         |     |   |
| 4 32630 Seal, Oil Intake Valve (Std.) (Incl. 9) 5 32783 Intake Valve (Std.) (Incl. 9) 6 278784 Exhaust Valve (Std.) (Incl. 9) 6 27878A Exhaust Valve (Std.) (Incl. 9) 7 27882 Cap. Upper valve Spring 7 A 20810 Pin, Valve Spring retainer (Use as re quired) 8 27881 Spring, Valve 9 32581 Spring, Valve 9 32581 Cap. Upper valve spring 10 32590 Pile, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 850662C screw must be used.) 10 34242 Dipper, Oil 1 32844 Crankshaft (Gear Pin (Early production ) 11 327884 Crankshaft (Incl. 12 & 13) 12 27884 Crankshaft (Gear Pin (Early production ) 13 27884 Crankshaft (Gear Pin (Early production ) 14 34517 Piston, Pin & Ring Set (Std.) (2-34* Bore) 14 34518 Piston, Pin & Ring Set (O10* OS) 14 34519 Piston, Pin & Ring Set (O20* OS) 14 32593B Piston & Pin Assy, (Std.) 2-34* (Incl. 16) 15 32596 Ring Set (Std.) 2-34* (Incl. 16) 16 32596 Ring Set (Std.) 2-34* (Incl. 16) 17 32591 Piston & Pin Assy, (O10* OS) (Incl. 16) 18 32597 Ring Set (Std.) 2-34* Bore) 19 32597 Ring Set (O20* OS) 16 27888 Ring Set (D10* OS) 18 666662C Screw (O20* OS) 19 24034 Lifter, Valve 29 31303B Cover, Cylinder (Incl. 10 & 18) 29 31303B Cover, Cylinder (Incl. 24, 106 & 279) 29 31297 Dipstok, Oil (Incl. 30) 29 31303B Cover, Cylinder (Incl. 24, 20 as required) 29 3251 Research (Jiller Cover) 20 32631 Piston & Pin Assy, (Condon (Incl. 24) 20 32973 Screw, 14-20 x 518* 20 329873 Screw, 14-20 x 518* 20 329873 Screw, 14-20 x 518* 20 329874 Screw, 14-20 x 518* 20 329875 Screw, 14-20 x 518* 20 329875 Screw, 14-20 x 518* 20 329876 Screw, 14-20 x 518* 21 32516 Screw, 14-20 x 518* 22 34034 Head, Cylinder head 23 32631 Piston & Pin Assy, Connecting (Incl. 10 & 18) 24 2427 Scal. Oil (Incl. 30) 25 3684 Screw, 14-20 x 518* 26 3634A Screw, 16-16 x 2-12* (Use as required) 26 3634A Screw, 16-16 x 2-12* (Use as required) 27 30 30 30 30 30 30 30 30 30 30 30 30 30  |     |         |     |   |
| 5 32783   Intake Valve (Std.) (Incl. 9)   5 32784   Intake Valve (17.32** OS) (Incl. 9)   6 278784   Exhaust Valve (17.32** OS) (Incl. 9)   6 27880A   Exhaust Valve (17.32** OS) (Incl. 9)   6 27880A   Exhaust Valve (17.32** OS) (Incl. 9)   7 27882   Cap. Upper valve spring   Cap. Upper valve spring   Pr. Valve spring retainer (Use as re quired)   8 27881   Spring, Valve   7 27881   Spring, Valve   7 27881   Spring, Valve   7 27881   Spring, Valve   7 2881   Cap. Lower valve spring   Pr. Valve spring    | 3   | 27642   |     | Plug, Oil drain   |
| 5 32784   Intake Valve (1/32" OS) (incl. 9) 6 27878A   Exhaust Valve (1/32" OS) (incl. 9) 6 27880A   Exhaust Valve (1/32" OS) (incl. 9) 7 27882   Cap. Upper valve spring 7 A 20810   Pin, Valve spring retainer (Use as re quired) 8 27881   Spring, Valve 9 32581   Cap. Upper valve spring 9 32581   Cap. Upper valve spring 10A 32590   Pale, Lock & Oil dipper (This plate may be replaced by 3/242 oil dipper but 680682C screw must be used.) 10 34242   Dipper, Oil 11 32844   Crankshaft (Gae Pin (Early production ) 12 27884   Crankshaft (Gae Pin (Early production ) 13 27884   Crankshaft (Gae Pin (Early production ) 14 34517   Piston, Pin & Ring Set (Orl O'OS) 14 34518   Piston, Pin & Ring Set (Orl O'OS) 14 34519   Piston, Pin & Ring Set (Orl O'OS) 14 34519   Piston, Pin & Ring Set (Orl O'OS) 14 32593B   Piston & Pin Assy, (Sol12)-34" (Incl. 16) 15 32596   Ring Set (Sid.) (2-34" Bore) 15 32596   Ring Set (Orl O'OS) (Incl. 16) 16 32597   Ring Set (Orl O'OS) (Incl. 16) 17 32596   Ring Set (Orl O'OS) 18 66060C   Rod Assy, Connecting (Incl. 10 & 18) 28 17 32591   Carnkshaft (Use as required) 29 313038   Cover, Cylinder (Incl. 24, 106 & 279) 29 32514   Carnkshaft (Use as required) 29 31297   Dipstick Oil (Incl. 30) 29 32514   Carnkshaft (Use as required) 20 32631   Carnkshaft (Use as required) 21 32115   Carnkshaft (Use as required) 22 34034   Lifter, Valve   Carnkshaft (Use as required) 23 313038   Cover, Cylinder (Incl. 24, 106 & 279) 25 31297   Dipstick Oil (Incl. 30) 26 3084   Casket, Oylinder head 27 31 65049   Carnkshaft (Use as required) 28 65049   Casket, Oylinder head 29 65049   Casket, Oylinder head 30 29673   Casket, Dylinder head 31 303836   Resistor Spark Plug (Rule) 32 3251   Resistor Spark Plug (Rule) 33 34251   Resistor Spark Plug (Rule) 34 2424   Element, Breather 44 28425   Cover, Valve spring   | 4   | 32630   |     | Seal, Oil   |
| 5 32784   Intake Valve (1/32" OS) (incl. 9) 6 27878A   Exhaust Valve (1/32" OS) (incl. 9) 6 27880A   Exhaust Valve (1/32" OS) (incl. 9) 7 27882   Cap. Upper valve spring 7 A 20810   Pin, Valve spring retainer (Use as re quired) 8 27881   Spring, Valve 9 32581   Cap. Upper valve spring 9 32581   Cap. Upper valve spring 10A 32590   Pale, Lock & Oil dipper (This plate may be replaced by 3/242 oil dipper but 680682C screw must be used.) 10 34242   Dipper, Oil 11 32844   Crankshaft (Gae Pin (Early production ) 12 27884   Crankshaft (Gae Pin (Early production ) 13 27884   Crankshaft (Gae Pin (Early production ) 14 34517   Piston, Pin & Ring Set (Orl O'OS) 14 34518   Piston, Pin & Ring Set (Orl O'OS) 14 34519   Piston, Pin & Ring Set (Orl O'OS) 14 34519   Piston, Pin & Ring Set (Orl O'OS) 14 32593B   Piston & Pin Assy, (Sol12)-34" (Incl. 16) 15 32596   Ring Set (Sid.) (2-34" Bore) 15 32596   Ring Set (Orl O'OS) (Incl. 16) 16 32597   Ring Set (Orl O'OS) (Incl. 16) 17 32596   Ring Set (Orl O'OS) 18 66060C   Rod Assy, Connecting (Incl. 10 & 18) 28 17 32591   Carnkshaft (Use as required) 29 313038   Cover, Cylinder (Incl. 24, 106 & 279) 29 32514   Carnkshaft (Use as required) 29 31297   Dipstick Oil (Incl. 30) 29 32514   Carnkshaft (Use as required) 20 32631   Carnkshaft (Use as required) 21 32115   Carnkshaft (Use as required) 22 34034   Lifter, Valve   Carnkshaft (Use as required) 23 313038   Cover, Cylinder (Incl. 24, 106 & 279) 25 31297   Dipstick Oil (Incl. 30) 26 3084   Casket, Oylinder head 27 31 65049   Carnkshaft (Use as required) 28 65049   Casket, Oylinder head 29 65049   Casket, Oylinder head 30 29673   Casket, Dylinder head 31 303836   Resistor Spark Plug (Rule) 32 3251   Resistor Spark Plug (Rule) 33 34251   Resistor Spark Plug (Rule) 34 2424   Element, Breather 44 28425   Cover, Valve spring   | 5   | 32783   |     | Intake Valve (Std.) (Incl. 9)                           |
| 6 27878A Exhaust Valve (Std.) (find. 9) 6 27880A Exhaust Valve (Std.) (find. 9) 7 27882 Cap. Upper valve spring 7 20810 Pin Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 9 32881 Spring, Valve 9 32881 Spring, Valve 9 32881 Spring, Valve 9 32881 Cap. Lover valve spring 10A 32590 Piate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 10 34242 Dipper, Oil 11 32844 Crankshaft (Ind. 12 & 13) 12 29783 Charlshaft (Gard Pin (Early production ) 13 27884 Crankshaft (Gard Pin (Early production) This gear is servicable onlywhen it is pinned to the crankshaft. 14 34517 Piston, Pin & Ring Set (5010' OS) 14 34519 Piston, Pin & Ring Set (5010' OS) 14 34519 Piston, Pin & Ring Set (5010' OS) 14 32592B Piston & Pin Assy. (1010' OS) (Ind. 16) 15 32595 Piston & Pin Assy. (1010' OS) (Ind. 16) 15 32595 Ring Set (0.010' OS) 16 27888 Ring Set (0.010' OS) 17 32591C Rod Assy., Connecting (Ind. 10 & 18) 18 650662C Screw Connecting (Ind. 10 & 18) 28 31303B Cover, Cylinder (Ind. 24, 106 & 279) 28 31303B Cover, Cylinder (Ind. 30) 28 32 32331A Gaster, Cylinder cover 28 32 33331A Gaster, Cylinder cover 38 26423 Body (10 20' Gaster) 39 28423 Cover, Cylinder Hug   |     |         |     | , , ,   |
| 6 27880A 7 27882 7 27882 Cap, Upper valve spring 7 27882 Cap, Upper valve spring 8 27881 Spring, Valve 8 27881 Spring, Valve 8 27881 Spring, Valve Spring, V |     |         |     |   |
| 7 27882 7 A 20810 8 27881 8 A 27881 8 A 27881 8 A 27881 8 A 27881 9 A 32581 9 A 32581 9 A 32581 10 A 32590 10 A 32590 10 A 32422 11 32944 11 32944 12 29783 12 29783 13 27884 14 34517 14 34517 15 34518 16 34518 17 4 34518 18 3592B 18 4 32592B 19 19 19 19 19 19 19 19 19 19 19 19 19 1   |     |         |     |   |
| 7A 20810 8 77881 8 77881 9 77881 8 A 27881 9 32581 9 32581 9 32581 10A 32590 Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but Esof662C screw must be used.)  10 34242 Dipper, Oil 11 32844 Crankshaft (Incl. 12 & 13) Crankshaft (Gear Pin (Early production.) This gear is serviced by crankshaft.  14 34517 Piston, Pin & Ring Set (JOTO 'GS.) Piston, Pin & Ring Set (JOTO 'GS.) Piston & Pin Assy. (Gold (Cearly) (Incl. 16) Piston & |     |         |     | , , ,   |
| 8 27881 8 A 27881 9 A 32581 9 A 32581 9 A 32581 10 Cap, Lower valve spring 10 A 32580 11 Cap, Lower valve spring 10 A 32580 11 Cap, Lower valve spring 11 A 32580 12 Cap, Lower valve spring 12 Cap, Lower valve spring 13 2422 13 Cap, Lower valve spring 14 3422 14 Cap, Lower valve spring 15 Cap, Lower valve spring 16 Cap, Lower valve spring 17 Cap, Lower valve spring 18 Cap, Lower valve spring 19 Cap, Lower valve spring 19 Cap, Lower valve spring 10 Cap, Lower valve spring 10 Cap, Lower valve spring 11 Cap, Lower valve spring 12 Cap, Lower valve spring 12 Cap, Lower valve spring 12 Cap, Lower valve spring 13 Cap, Lower valve spring 14 Cap, Lower valve spring 14 Cap, Lower valve spring 14 Cap, Lower valve spring 15 Cap, Lower valve spring 16 Cap, Lower valve spring 17 Cap, Lower valve spring 18 Cap, Lower valve spring 18 Cap, Lower valve spring 19 Cap, Lower valve spring 10 Cap, Lower valve valve spring 10 Cap, Lower valve valve valve spring 10 Cap, Lower valve valve valve spring 10 Cap, Lower valve valve valve valve spring 10 Cap, Lower valve  |     |         |     |   |
| 8A 27881 9 32581 Cap, Lower valve spring Cap, Lower valve spring Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.)  10 34242 Dipper, Oil Crankshaft (Incl. 12 & 13) Crankshaft (Used in early production) This gear is servicable onlywhen it is pinned to the crankshaft.  14 34517 Piston, Pin & Ring Set (Std.) (2-34" Bore) Piston, Pin & Ring Set (101" OS) Piston, Pin & Ring Set (101" OS) Piston, Pin & Ring Set (101" OS) Piston, Pin & Ring Set (102" OS) Piston & Pin Assy. (J01" OS) (Incl. 16) Piston & Pin Assy. (J01" OS) Piston & Pin Assy.  |     |         |     | •                 |
| 9 32581 Cap, Lower valve spring 9A 32581 Cap, Lower valve spring 10A 32590 Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.)  10 34242 Dipper, Oil Crankshaft (Incl. 12 & 13) 11 32844 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft Gear Pin (Early production ) 13 27884 Gear, Crankshaft (Desd in early produ clion) This gear is servicable onlywhen it is pinned to the crankshaft.  14 34517 Piston, Pin & Ring Set (Sold.) (2-3/4" Bore) 14 34518 Piston, Pin & Ring Set (1010" OS) 14 34519 Piston, Pin & Ring Set (1020" OS) 15 3259B Piston & Pin Assy, (Sold.)(2-3/4")(Incl.16) 16 3259B Piston & Pin Assy, (Sold.)(2-3/4")(Incl.16) 17 3259B Piston & Pin Assy, (1020" OS) (Incl. 16) 18 32595 Ring Set (Sold.) (2-3/4" Bore) 18 32596 Ring Set (Sold.) (2-3/4" Bore) 18 32597 Ring Set (Ol0" OS) 18 600602 Sorew, Connecting (Incl. 10 & 18) 28 600602 Sorew, Connecting (Incl. 10 & 18) 28 31303B Cover, Cylinder (Incl. 24, 106 & 279) 28 31303B Cover, Cylinder cover 28 31303B Sorew, (14-20 x 1-1/4" Seaket, Cylinder cover 28 31303B Sorew, (14-20 x 1-1/4" Gasket, Cylinder cover 38 30938A Head, Cylinder Cover 38 30938A Head, Cylinder Load 39 30938A Head, Cylinder Load 30 30938A Head, Cylinder Load 30 30938A Sorew, (16-18 x 2-1/2" (Use as required) 30 26673 Saket, Cylinder Load 31 660695A Sorew, (51-61 8 x 2-1/2" (Use as required) 32 28251 Resistor Spark Plug 32 328423 Body, Waster 34 28425 Cover, Valve spirng  |     |         |     |   |
| 9A 32581 10A 32590 Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 10 34242 Dipper, Oil 11 32844 Crankshaft (Ind. 12 & 13) Crankshaft (Ind. 12 & 13) Crankshaft (Ind. 12 & 13) Crankshaft (Gear Pin (Early production) Gear, Crankshaft (Gear Pin (Early production) This gear is servicable onlywhen it is pinned to the crankshaft.  14 34517 Pliston, Pin & Ring, Set (Std.) (2-34* Bore) Piston, Pin & Ring, Set (Oid.) (2-34* Bore) Piston, Pin & Ring, Set (Oid.) (2-34* Bore) Piston, Pin & Ring, Set (Oid.) (2-34* Ind. 16) Piston, Pin & Ring, Set (Oid.) (2-34* Ind. 16) Piston & Pin Assy. (Oid.) (0-3) Piston & Pin Assy. (0-3) Pisto |     |         |     |   |
| Plaie, Lock & Oli dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.)   10 34242   |     |         |     | •   |
| 34242 di dipper but 650662C screw must be used.)  10 34242   |     |         |     |   |
| 10 34242 Dipper, Oil 11 32844 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Gear Pin (Early production ) Gear, Crankshaft (Gear Pin (Early production ) Gear, Crankshaft (Used in early production) This gear is servicable onlywhen it is pinned to the crankshaft.  14 34517 Piston, Pin & Ring Set (Std.) (2-34" Bore) 14 34518 Piston, Pin & Ring Set (Jol0" OS) 14 34519 Piston, Pin & Ring Set (Jol0" OS) 14 34519 Piston & Pin Assiy. (Std.) (2-34") (In cl.16) 14 32592B Piston & Pin Assiy. (Std.) (2-34") (In cl.16) 14 32594B Piston & Pin Assiy. (ODIO" OS) (Incl. 16) 15 32596 Ring Set (Std.) (2-34" Bore) 15 32596 Ring Set (Std.) (2-34" Bore) 16 27888 Ring. Piston & Pin Assy. (Jol0" OS) 17 32591C Rod Assy. Connecting (Incl. 10 & 18) 18 650662C Screw, Connecting (Incl. 10 & 18) 18 650662C Screw, Connecting (Incl. 10 & 18) 22 34034 Lifter, Valve 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 24B 31546 Bushing, Crankshaft (Use as required) 24 28427 Seal, Oil 25 31297 Dipstick, Oil (Incl. 30) 26 30884 Screw, 114-20 x 518" 30 29673 Gasket, Cylinder cover 30 30884 Screw, 114-20 x 518" 31 650489 Screw, 114-20 x 518" 32 326311 Gasket, Cylinder head 42 4277 Gasket, Cylinder over 33 30938A Head, Cylinder 34 27793 Cip, Conduit (Use as required) 35 28942 Screw, 114-20 x 518" 36 500694A Screw, 516-18 x 2 -1/2" (Use as required) 37 33636 Resistor Spark Plug (R18 x 2) 38 27898A Gasket, Plug (R18 x 2) 39 28423 Body, Breather 40 28424 Element, Breather 40 28425 Cover, Valve Spring  | 10A | 32590   |     | Plate, Lock & Oil dipper (This plate may be replaced by |
| 11 32844 12 29783 13 27884 14 34517 15 28784 15 29785 16 297864 17 297864 18 297864 19 297864 19 297864 10 297864 11 32844 12 297864 11 32844 12 297864 13 27884 15 297864 16 297864 16 297864 16 297864 16 297864 17 297864 18 34517 19 29150n, Pin & Ring Set (Std.) (2-3/4" Bore) 19 297864 19 29786 29786 2 |     |         |     | 34242 oil dipper but 650662C screw must be used.)       |
| 11 32844 12 29783 13 27884 14 34517 15 28784 15 29785 16 297864 17 297864 18 297864 19 297864 19 297864 10 297864 11 32844 12 297864 11 32844 12 297864 13 27884 15 297864 16 297864 16 297864 16 297864 16 297864 17 297864 18 34517 19 29150n, Pin & Ring Set (Std.) (2-3/4" Bore) 19 297864 19 29786 29786 2 | 10  | 24242   |     | Dippor Oil  |
| 12 29783   |     |         |     |   |
| Gear, Crankshaft (Used in early produ citon) This gear is servicable onlywhen it is pinned to the crankshaft.  14 34517 Piston, Pin & Ring Set (Std.) (2.34" Bore)  14 34518 Piston, Pin & Ring Set (Ot0" OS)  14 34519 Piston, Pin & Ring Set (Ot0" OS)  14 32592B Piston & Pin Assy. (Ot10" CS) (Incl. 16)  14 32593B Piston & Pin Assy. (Ot10" CS) (Incl. 16)  14 32594B Piston & Pin Assy. (Ot0" OS) (Incl. 16)  15 32595 Ring Set (Ot0" OS)  16 27888 Piston & Pin Assy. (O20" OS)  16 27888 Ring, Piston pin retaining  17 32591C Rod Assy., Connecting (Incl. 10 & 18)  18 650662C Screw, Connecting rod (2 each)  21 32115 Carshaft (MCR)  21 32115 Carshaft (MCR)  22 34034 Lifter, Valve  23 31303B Cover, Cylinder (Incl. 24, 106 & 279)  24B 31546 Bushing, Crankshaft (Use as required)  25 31297 Dipstick, Oil (Incl. 30)  26 30684 Screw, 1/4-20 x 1-1/4"  30 29673 "Gasket, Cylinder cover  26 650488 Screw, 1/4-20 x 1-1/4"  31 650489 Screw, 1/4-20 x 1-1/4"  32 32631A "Gasket, Cylinder head  14 2642 Red Cover, Cylinder (Incl. 30)  35 28942 Screw, 1/4-20 x 1-1/4"  36 650695A Screw, 1/4-20 x 1-1/4" (Use as required)  37 34251 Resistor Spark Plug (RJ-8C)  38 27896A Screw, 5/16-18 x 2-1/4" (Use as required)  39 28423 Body, Breather  40 28424 Element, Breather  Cover, Valves pring  |     |         |     | · · · · · · · · · · · · · · · · · · ·                   |
| servicable onlywhen it is pinned to the crankshaft.  14 34518  |     |         |     |   |
| 14 34517 14 34518 15 Piston, Pin & Ring Set (Jot1) (2-3/4" Bore) 14 34519 15 Piston, Pin & Ring Set (Jour OS) 14 34519 16 Piston, Pin & Ring Set (Jour OS) 17 Responsive Piston, Pin & Ring Set (Jour OS) 18 Piston & Pin Assy. (Jour OS) (Incl. 16) 19 Piston & Pin Assy. (Jour OS) (Incl. 16) 19 Piston & Pin Assy. (Jour OS) (Incl. 16) 10 Piston & Pin Assy. (Jour OS) (Incl. 16) 11 Suz595 12 Suz595 13 Suz596 15 Suz596 16 Piston & Pin Assy. (Jour OS) (Incl. 16) 18 Suz597 19 Ring Set (Jour OS) 19 Piston & Pin Assy. (Jour OS) (Incl. 16) 19 Ring Set (Jour OS) 10 Piston & Pin Assy. (Jour OS) (Incl. 16) 11 Piston & Pin Assy. (Jour OS) (Incl. 16) 11 Piston & Pin Assy. (Jour OS) (Incl. 16) 12 Piston & Pin Assy. (Jour OS) (Incl. 16) 13 Jur Os) 14 Piston & Pin Assy. (Jour OS) (Incl. 16) 15 Jur Os) (Incl. 16) 16 Piston & Pin Assy. (Jour Os) (Incl. 16) 17 Piston & Pin Assy. (Jour Os) (Incl. 16) 18 Suz596 19 Ring Set (Jour Os) (Incl. 16) 18 Suz597 19 Ring Set (Jour Os) (Incl. 10 & 18) 19 Piston & Pin Assy. (Jour Os) (Incl. 10 & 18) 19 Piston & Pin Assy. (Jour Os) (Incl. 10 & 18) 10 Piston & Pin Assy. (Jour Os) (Incl. 10 & 18) 10 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Assy. (Jour Os) (Incl. 16) 11 Piston & Pin Asy. (Jur Os) (Incl. 16) 11 Piston & Pin Asy. (Jur Os) (Incl. 16) 11 Piston & Pin Asy. (Jur Os) (Incl. 16) 11 Piston & Pin Asy. (Jur Os) (Incl. 16) 11 Piston & Pin Asy. (Jur Os) (Incl. 16) 11 Piston & Pin Asy. (Idlor Os) (Idlor Os) (Idlor Os) (Idlor Os) 11 Pisto | 13  | 27884   |     |   |
| 14 34518 14 34519 15ton, Pin & Ring Set (.010" OS) 14A 32592B Piston & Pin Assiy, (.910" OS) (Incl. 16) 14A 32593B Piston & Pin Assy, (.010" OS) (Incl. 16) 14A 32594B Piston & Pin Assy, (.010" OS) (Incl. 16) 15 32595 Ring Set (.910" OS) 15 32596 Ring Set (.920" OS) 16 27888 Ring Set (.020" OS) 17 32591C Rod Assy, (.000" OS) 18 650682C Rod Assy, Connecting (Incl. 10 & 18) 18 650682C Screw, Connecting rod (2 each) 21 32115 Camshaft (MCR) Lifter, Valve 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 24B 31546 Bushing, Crankshaft (Use as required) 24 28427 Seal, Oil 25 31297 Dipstick, Oil (Incl. 30) 26 30684 Rod Assy, Cover, Vilnder cover 26 30684 Rod Screw, 1/4-20 x 1-1/4" 30 29673 Rod Saket, Oil filler Rod Assy, Cover, Vilnder (Incl. 24) Rod  |     |         |     | servicable onlywhen it is pinned to the crankshaft.     |
| 14 34518 14 34519 15ton, Pin & Ring Set (.010" OS) 14A 32592B Piston & Pin Assiy, (.910" OS) (Incl. 16) 14A 32593B Piston & Pin Assy, (.010" OS) (Incl. 16) 14A 32594B Piston & Pin Assy, (.010" OS) (Incl. 16) 15 32595 Ring Set (.910" OS) 15 32596 Ring Set (.920" OS) 16 27888 Ring Set (.020" OS) 17 32591C Rod Assy, (.000" OS) 18 650682C Rod Assy, Connecting (Incl. 10 & 18) 18 650682C Screw, Connecting rod (2 each) 21 32115 Camshaft (MCR) Lifter, Valve 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 24B 31546 Bushing, Crankshaft (Use as required) 24 28427 Seal, Oil 25 31297 Dipstick, Oil (Incl. 30) 26 30684 Rod Assy, Cover, Vilnder cover 26 30684 Rod Screw, 1/4-20 x 1-1/4" 30 29673 Rod Saket, Oil filler Rod Assy, Cover, Vilnder (Incl. 24) Rod  | 14  | 34517   |     | Piston, Pin & Ring Set (Std.) (2-3/4" Bore)             |
| 143 4519 14A 32592B 14A 32593B 14A 32593B 14A 32593B 14A 32594B 15   |     |         |     |   |
| 14A 32592B 14A 32593B 14A 32593B 14A 32594B 15   |     |         |     |   |
| 14A 32593B 14A 32594B 14A 32594B 15 32595 16 Piston & Pin Ass'y. (010" OS) (Incl. 16) 17 32596 18 Ring Set (020" OS) 18 32597 18 Ring Set (020" OS) 19 32597 19 Ring Set (020" OS) 19 32591C 19 32591C 19 32591C 20 34034 21 32115 22 34034 23 31303B 24B 31546 24 28427 25 31297 26 30684 27 52 31297 28 650488 29 5673 29 63584 20 29673 21 32631A 21 32631A 22 32631A 23 30938A 24 2773 25 30938A 36 650697A 36 650697A 37 34251 38 27896A 39 28423 39 28423 39 28423 39 28424 30 28679 30 28676 30 28676 30 28684 30 2799 30 28676 30 28677 31 36 650695A 31 3297 32 32631 33 30338 34 27793 35 28942 36 650695A 37 34251 38 27896A 39 28423 39 28424 40 28424 41 28425 Cover, Valve 2000 Cover, V |     |         |     |   |
| 14A 32594B 15 32595 17 32596 18 Ring Set (Std.) (2-3/4" Bore) 18 32596 19 32597 10 32597 11 32597 12 Ring Set (1020" OS) 13 32597 14 27888 15 32591 15 32591 16 27888 17 32591C 18 Rod Assy., Connecting (Incl. 10 & 18) 18 650662C 19 32115 20 34034 21 32115 21 34034 22 34034 23 31303B 24B 31546 25 Bushing, Crankshaft (Use as required) 26 30684 27 28427 28 31297 29 10 10 10 10 10 10 10 10 10 10 10 10 10   |     |         |     |   |
| 15 32596   Ring Set (Std.) (2'3/4" Bore)   |     |         |     |   |
| 15       32596       Ring Set (.010" OS)         16       27888       Ring, Piston pin retaining         17       32591C       Rod Assy., Connecting (Incl. 10 & 18)         18       650662C       Screw, Connecting rod (2 each)         21       32115       Camshaft (MCR)         22       34034       Lifter, Valve         23       31303B       Cover, Cylinder (Incl. 24, 106 & 279)         24B       31546       Bushing, Crankshaft (Use as required)         24       28427       Seal, Oil         25       31297       Dipstick, Oil (Incl. 30)         26       30684       * Gasket, Cylinder cover         28       650488       Screw, 1/4-20 x 1-1/4"         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Cylinder head         33       30938A       Head, Cylinder         34       27793       Clip, Conduit (Use as required)         35       28942       Screw, 5/16-18 x 2-1/2" (Use as required)         36       650695A       Screw, 5/16-18 x 2-1/2" (Use as required)         36       650695A       Screw, 5/16-18 x 2-1/2" (Use as required) <td< td=""><td></td><td></td><td></td><td></td></td<>  |     |         |     |   |
| 15       32597       Ring Set (.020" OS)         16       27888       Ring, Piston pin retaining         17       32591C       Rod Assy., Connecting (Incl. 10 & 18)         18       650662C       Screw, Connecting rod (2 each)         21       32115       Camshaft (MCR)         22       34034       Lifter, Valve         23       31303B       Cover, Cylinder (Incl. 24, 106 & 279)         24B       31546       Bushing, Crankshaft (Use as required)         24       28427       Seal, Oil         25       31297       Dipstick, Oil (Incl. 30)         26       30684       * Gasket, Cylinder cover         28       650488       Screw, 1/4-20 x 1-1/4"         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Oylinder head         43       27793       Cip, Conduit (Use as required)         35       28942       Screw, 10-32 x 3/8" (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as required)         36       650694A       Screw, 5/16-18 x 2-1/4" (Use as required)         37       34251       Resistor Spark Plug   |     |         |     |   |
| 16       27888       Ring, Piston pin retaining         17       32591C       Rod Assy., Connecting (Incl. 10 & 18)         18       650662C       Screw, Connecting rod (2 each)         21       32115       Camshaff (MCR)         22       34034       Lifter, Valve         23       31303B       Cover, Cylinder (Incl. 24, 106 & 279)         24B       31546       Bushing, Crankshaft (Use as required)         24       28427       Seal, Oil         25       31297       Dipstick, Oil (Incl. 30)         26       30684       Screw, 1/4-20 x 1-1/4*         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Oylinder         33       30938A       Head, Oylinder         42       Z7793       Clip, Conduit (Use as required)         35       28942       Screw, 5/16-18 x 2-1/2" (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as required)         36       650695A       Screw, 5/16-18 x 2 2" (Use as required)         37       34251       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38 </td <td></td> <td></td> <td></td> <td></td>   |     |         |     |   |
| 17 32591C 18 650662C 20 Screw, Connecting (Incl. 10 & 18) 21 32115 22 34034 23 31303B 24 Cover, Cylinder (Incl. 24, 106 & 279) 24B 31546 25 31297 26 30684 27 Seal, Oil 28 650488 29 Screw, 1/4-20 x 1-1/4" 30 29673 31 650489 32 32631A 33 30938A 34 27793 35 28942 36 650697A 36 650695A 37 34251 38 27896A 39 28423 40 28424 41 28425  Roa Assy., Connecting (Incl. 10 & 18) Screw, Connecting (Incl. 24, 106 & 279) Screw, Cylinder (Incl. 24, 106 & 279) Bushing, Crankshaft (Use as required) Seal, Oil Iller Screw, 1/4-20 x 5/8" Screw, 1/4-20 x  |     |         |     | Ring Set (.020" OS)                                     |
| 18       650662C       Screw, Connecting rod (2 each)         21       32115       Camshaft (MCR)         22       34034       Lifter, Valve         23       31303B       Cover, Cylinder (Incl. 24, 106 & 279)         24B       31546       Bushing, Crankshaft (Use as required)         24       28427       Seal, Oil         25       31297       Dipstick, Oil (Incl. 30)         26       30684       * Gasket, Cylinder cover         28       650488       Screw, 1/4-20 x 1-1/4"         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Cylinder head         43       33 30938A       Head, Cylinder         4       27793       Clip, Conduit (Use as required)         35       28942       Screw, 10-32 x 3/8" (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650695A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650694A       Screw, 5/16-18 x 2-1/2" (Use as required)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover  | 16  | 27888   |     | Ring, Piston pin retaining                              |
| 18       650662C       Screw, Connecting rod (2 each)         21       32115       Camshaft (MCR)         22       34034       Lifter, Valve         23       31303B       Cover, Cylinder (Incl. 24, 106 & 279)         24B       31546       Bushing, Crankshaft (Use as required)         24       28427       Seal, Oil         25       31297       Dipstick, Oil (Incl. 30)         26       30684       * Gasket, Cylinder cover         28       650488       Screw, 1/4-20 x 1-1/4"         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Cylinder head         43       33 30938A       Head, Cylinder         4       27793       Clip, Conduit (Use as required)         35       28942       Screw, 10-32 x 3/8" (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650695A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650694A       Screw, 5/16-18 x 2-1/2" (Use as required)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover  | 17  | 32591C  |     | Rod Assy., Connecting (Incl. 10 & 18)                   |
| 21 32115   | 18  | 650662C |     |   |
| 22 34034   | 21  | 32115   |     | Camshaft (MCR)  |
| 23 31303B  | 22  | 34034   |     | Lifter. Valve   |
| 24B 31546 Bushing, Crankshaft (Use as required) 24 28427 Seal, Oil 25 31297 Dipstick, Oil (Incl. 30) 26 30684 *Gasket, Cylinder cover 28 650488 Screw, 1/4-20 x 1-1/4" 30 29673 *Gasket, Oil filler 31 650489 Screw, 1/4-20 x 5/8" 32 32631A *Gasket, Cylinder head 4 27793 Clip, Conduit (Use as required) 35 28942 Screw, 10-32 x 3/8" (Use as required) 36 650697A Screw, 5/16-18 x 2-1/2" (Use as required) 36 650695A Screw, 5/16-18 x 2-1/4" (Use as required) 37 33636 Resistor Spark Plug (RJ-8C) 38 27896A *Gasket, Cylinder 40 28424 Element, Breather Cover, Valve spring   |     |         |     |   |
| 24 28427 Seal, Oil 25 31297 Dipstick, Oil (Incl. 30) 26 30684 * Gasket, Cylinder cover 28 650488 Screw, 1/4-20 x 1-1/4" 30 29673 * Gasket, Oil filler 31 650489 Screw, 1/4-20 x 5/8" 32 32631A * Gasket, Cylinder head 4 27793 Clip, Conduit (Use as required) 35 28942 Screw, 10-32 x 3/8" (Use as required) 36 650697A Screw, 5/16-18 x 2-1/2" (Use as requi red) 36 650695A Screw, 5/16-18 x 2-1/4" (Use as requi red) 37 33636 Resistor Spark Plug (RJ-8C) 37 34251 Resistor Spark Plug 38 27896A * Gasket, Breather 40 28424 Element, Breather 41 28425 Cover, Valve spring   |     |         |     |   |
| 25       31297       Dipstick, Oil (Incl. 30)         26       30684       * Gasket, Cylinder cover         28       650488       Screw, 1/4-20 x 1-1/4"         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Cylinder head         33       30938A       Head, Cylinder         34       27793       Clip, Conduit (Use as required)         35       28942       Screw, 10-32 x 3/8" (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650695A       Screw, 5/16-18 x 2-1/4" (Use as required)         37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug (RJ-8C)         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring   |     |         |     | •                 |
| 26 30684   |     |         |     |   |
| 28 650488 Screw, 1/4-20 x 1-1/4" 30 29673 * Gasket, Oil filler 31 650489 Screw, 1/4-20 x 5/8" 32 32631A * Gasket, Cylinder head 33 30938A Head, Cylinder 34 27793 Clip, Conduit (Use as required) 35 28942 Screw, 10-32 x 3/8" (Use as required) 36 650697A Screw, 5/16-18 x 2-1/2" (Use as requi red) 36 650694A Screw, 5/16-18 x 2-1/4" (Use as requi red) 37 33636 Resistor Spark Plug (RJ-8C) 37 34251 Resistor Spark Plug 38 27896A * Gasket, Breather cover 39 28423 Body, Breather 40 28424 Element, Breather 41 28425 Cover, Valve spring  |     |         |     |   |
| 30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Cylinder head         33       30938A       Head, Cylinder         34       27793       Clip, Conduit (Use as required)         35       28942       Screw, 10-32 x 3/8" (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as required)         36       650695A       Screw, 5/16-18 x 2" (Use as required)         36       650694A       Screw, 5/16-18 x 2" (Use as required)         37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring  |     |         |     |   |
| 31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Cylinder head         33       30938A       Head, Cylinder         34       27793       Clip, Conduit (Use as required)         35       28942       Screw, 10-32 x 3/8" (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650695A       Screw, 5/16-18 x 2" (Use as required)         37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring  |     |         |     | •   |
| 32       32631A       * Gasket, Cylinder head         33       30938A       Head, Cylinder         34       27793       Clip, Conduit (Use as required)         35       28942       Screw, 10-32 x 3/8" (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650695A       Screw, 5/16-18 x 2" (Use as required)         36       650694A       Screw, 5/16-18 x 2" (Use as required)         37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring  |     |         |     |   |
| 33 30938A Head, Cylinder 34 27793 Clip, Conduit (Use as required) 35 28942 Screw, 10-32 x 3/8" (Use as required) 36 650697A Screw, 5/16-18 x 2-1/2" (Use as requi red) 36 650695A Screw, 5/16-18 x 2-1/4" (Use as requi red) 36 650694A Screw, 5/16-18 x 2" (Use as required) 37 33636 Resistor Spark Plug (RJ-8C) 37 34251 Resistor Spark Plug 38 27896A * Gasket, Breather cover 39 28423 Body, Breather 40 28424 Element, Breather 41 28425 Cover, Valve spring   |     |         |     | ·   |
| 34       27793       Clip, Conduit (Use as required)         35       28942       Screw, 10-32 x 3/8" (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650695A       Screw, 5/16-18 x 2" (Use as required)         36       650694A       Screw, 5/16-18 x 2" (Use as required)         37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring   |     |         |     | · · · · · · · · · · · · · · · · · · ·                   |
| 35       28942       Screw, 10-32 x 3/8" (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650695A       Screw, 5/16-18 x 2-1/4" (Use as requi red)         36       650694A       Screw, 5/16-18 x 2" (Use as required)         37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring   |     |         |     |   |
| 36       650697A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650695A       Screw, 5/16-18 x 2-1/4" (Use as requi red)         36       650694A       Screw, 5/16-18 x 2" (Use as required)         37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring  |     |         |     | · · · · · · · · · · · · · · · · · · ·                   |
| 36       650695A       Screw, 5/16-18 x 2-1/4" (Use as required)         36       650694A       Screw, 5/16-18 x 2" (Use as required)         37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring   |     |         |     |   |
| 36       650694A       Screw, 5/16-18 x 2" (Use as required)         37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring  |     |         |     |   |
| 36       650694A       Screw, 5/16-18 x 2" (Use as required)         37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring  | 36  | 650695A |     | Screw, 5/16-18 x 2-1/4" (Use as requi red)              |
| 37       33636       Resistor Spark Plug (RJ-8C)         37       34251       Resistor Spark Plug         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring   | 36  | 650694A |     | Screw, 5/16-18 x 2" (Use as required)                   |
| 37 34251 Resistor Spark Plug 38 27896A * Gasket, Breather cover 39 28423 Body, Breather 40 28424 Element, Breather 41 28425 Cover, Valve spring  |     |         |     | • • •   |
| 38 27896A * Gasket, Breather cover 39 28423 Body, Breather 40 28424 Element, Breather 41 28425 Cover, Valve spring   |     |         |     | . • ,   |
| 39 28423 Body, Breather 40 28424 Element, Breather 41 28425 Cover, Valve spring  |     |         |     | •   |
| 40 28424 Element, Breather<br>41 28425 Cover, Valve spring   |     |         |     |   |
| 41 28425 Cover, Valve spring   |     |         |     | · · · · · · · · · · · · · · · · · · ·                   |
| · · · · · · · · · · · · · · · · · · ·  |     |         |     |   |
| 42 20073 Washer (Use as required)  |     |         |     | • •   |
|  | 42  | 20013   |     | vvasilei (Use as requileu)                              |

| Dof #       | Part Number C   | Oty Description  |
|-------------|-----------------|--|
|             | 650691          |  |
|             |                 | Washer, Flat (Use as required)                                 |
|             | 650690          | Washer, Belleville (Use as required)                           |
|             | 650128          | Screw, 10-24 x 1/2"  |
|             | 27915A          | * Gasket, Intake   |
|             | 30195A          | Flange, Carburetor (Incl. 79 & 80)                             |
| 47          | 30196           | Screw, 5/16-18 x 3/4"  |
| 48          | 29716           | Screw, 1/4-28 x 7/16"  |
| 50          | 650548          | Screw, 8-32 x 5/16"  |
|             | 32326A          | Lever, Governor (New lever does not need 1 of                  |
| <b>52</b>   | 020207 (        | 51,66,132,164,165,207)   |
|             |                 | 31,00,132,104,100,201)   |
| 55          | 30205           | Bracket, Adjusting   |
| 59          | 29216           | Nut, Lock, 10-32   |
| 61          | 29826           | Screw, 10-32 x 3/4"  |
|             | 29642           | Ring, Retaining  |
|             | 30699C          | Rod Assy., Governor (Incl. 64 & 65)                            |
|             | 30699B          | Governor Rod Ass'y. (This one-piece governor rodis no longer   |
| 05          | 30099D          |  |
|             |                 | used. It is replaced by 30699C ass'y.,Ref. no. 63A)            |
| 64          | 30700           | Yoke, Governor   |
|             | 650494          | Screw, 6-40 x 5/16"  |
|             | 29918           | Lockwasher, #8 E.T.  |
|             | 35350           | Tube, Breather   |
|             |                 |  |
|             | 29747B          | Screw, 5/16-24 x 21/32"  |
|             | 32158E          | Blower Housing (For elec.star.)(Incl. 134,135)                 |
|             | 650815          | Washer, Belleville   |
|             | 8116            | Nut, Hex   |
| 73          | 29536           | Blower Housing Baffle (without electric starter knock-out)     |
|             |                 | (Use as required)  |
| 73          | 35256A          | Blower Housing Baffle (with electric starter knock-out) (Use   |
| 70          | 00200/ <b>1</b> | as required) (Point Ignition)                                  |
|             |                 | as required) (if on it ignition)                               |
| 74          | 650561          | Screw, 1/4-20 x 5/8"   |
| 75          | 31688A          | * Gasket, Carburetor   |
| 79          | 29752           | Nut & Lockwasher Assy., 1/4-28                                 |
|             | 650572          | Screw, 1/4-28 x 1-1/8"   |
|             | 730164          | Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89, 90A & 331B)      |
| <b>02</b> ( | 100101          | (Use as required)  |
|             |                 | ,  |
| 97          | 35349           | Ground Wire  |
| 100         | 29538           | Base, Engine mounting  |
| 103         | 32401           | Muffler  |
|             | 31845           | Shaft, Mechanical governor                                     |
|             | 30591           | Gear Assy., Governor (Incl. 109)                               |
|             | 30588A          | Spool, Governor  |
|             | 30590A          | Washer, Flat   |
|             |                 |  |
|             | 29193           | Ring, Retaining  |
|             | 650561          | Screw, 1/4-20 x 5/8"   |
|             | 33350           | Fuel Tank (Incl. 115 & 117A)                                   |
|             | 410144B         | Fuel Cap (White Plastic)(Std)(As requ ired)                    |
| 115         | 33032           | Fuel Cap (Charcoal Plastic) (Spurt resistant, Low profile)     |
|             |                 | (Use as required)  |
| 115         | 34210           | Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as |
| 113         | 34210           | required)  |
| 445         | 25255           | • ,  |
|             | 35355           | Fuel Cap (Use as required)                                     |
|             | 33351           | Valve, Fuel strainer & shut-off (Incl 119)                     |
|             | 29774           | Fuel Line (Braided 8-1/4" 21 cm)(Use as req.)                  |
| 118         | 30705           | Fuel Line (Braided 16") (41 cm) (Use as req.)                  |
|             |                 |  |

| Ref # | Part Number | Qty | Description   |
|-------|-------------|-----|---|
| 118   | 30962       |     | Fuel Line (Braided 32") (81 cm) (Use as req.)   |
| 119   | 33679       |     | Bushing, Fuel fitting   |
| 120   | 650128      |     | Screw, 10-24 x 1/2" (Use as required)   |
| 121   | 30622A      |     | Extension, Blower housing   |
| 122   | 34174       |     | Deflector, Exhaust  |
| 123   | 650665      |     | Screw, 1/4-15 x 7/8"  |
| 124   | 650542      |     | Screw, 5/16-18 x 3/4"   |
| 125   | 27930A      |     | Gasket, Exhaust   |
| 126   | 30196       |     | Screw, 5/16-18 x 3/4"   |
| 127   | 26073       |     | Washer (Use as required)  |
| 128   | 650694A     |     | Screw, 5/16-18 x 2" (Use as required)   |
| 129   | 32589       |     | Key, Flywheel   |
| 130   | 31843A      |     | Bracket, Governor gear  |
| 131   | 650836      |     | Screw, 10-24 x 1/2"   |
| 133   | 650493      |     | Screw, 1/4-20 x 1-3/4"  |
|       | 30747       |     | Clip, Shorting  |
| 193   | 610118      |     | Cover, Spark plug (Use as required)   |
| 205   | 650561      |     | Screw, 1/4-20 x 5/8" (Use as required )   |
|       | 30939A      |     | Cover, Cylinder head  |
| 246   | 32125       |     | Cup, Starter  |
| 247   | 590417      |     | Screen, Starter cup   |
|       | 26460       |     | Clamp, Fuel line  |
|       | 31461       |     | Bushing, Crankshaft (Use as required)   |
|       | 610973      |     | Terminal Ass'y. (As req. on late prod uction)   |
|       | 27275       |     | Clip, Hi-tension wire (Use as require d)  |
|       | 34246       |     | Clip, Ground wire (Use as required)   |
|       | 34346       |     | Decal, Instruction  |
|       | 550223      |     | Decal, Name   |
|       | 30547A      |     | Contact Assy., Breaker  |
|       | 30548B      |     | Condenser   |
|       | 631021      |     | Inlet Needle, Seat & Clip Assy.   |
| 336   | 631459      |     | Carburetor (Incl. 75) (Refer to Division 5, Section A, page 100 for breakdown)  |
| 337   | 610694A     |     | Magneto (w/ring gear for 110 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 show in parts list. (Refer to Division 5, Section B, page 24 for breakdown) |
| 338   | 590473      |     | Rewind Starter (Refer to Division 5, Section C, page 29 for breakdown)  |
| 343   | 33239A      |     | Gasket Set (Incl. items marked*)  |



| Ref # | Part Number Qty | Description  |
|-------|-----------------|--|
| 31    | 650489          | Screw, 1/4-20 x 5/8"   |
| 34    | 27793           | Clip, Conduit (Use as required)  |
| 35    | 28942           | Screw, 10-32 x 3/8" (Use as required)  |
| 43A   | 650128          | Screw, 10-24 x 1/2"  |
| 48    | 29716           | Screw, 1/4-28 x 7/16"  |
|       | 650815          | Washer, Belleville   |
|       | 8116            | Nut, Hex   |
|       | 33013           | Cover, Bubble  |
|       | 650736          | Screw, 10-16 x 3/8"  |
|       | 610118          | Cover, Spark plug (Use as required)  |
|       | 33109A          | Control Bracket (Incl. 224 & 274)  |
|       | 30826           | Spring, Extension  |
|       | 650257          | Screw, 8-32 x 5/16"  |
|       | 33134           | Cover, Carburetor  |
|       | 32398           |  |
|       | 28820           | Bracket, Choke   |
|       |                 | Screw, 10-32 x 1/2"  |
|       | 650765          | Screw, 10-32 x 1/2"  |
|       | 650760          | Screw, 8-32 x 3/8"   |
|       | 650764          | Nut, "U" Type (Use as required)  |
|       | 610973          | Terminal Ass'y. (As req. on late prod uction)  |
|       | 32397           | Plate Assy., Choke   |
|       | 32399           | Spring, Choke stop   |
|       | 32400           | Knob, Choke  |
|       | 31680           | Guard, Starter   |
|       | 32576           | Seal, Snow guard   |
| 331G  | 31683           | Decal, Choke   |
| 331   | 550223          | Decal, Name  |
| 331H  | 31682           | Decal, Instruction   |
| 331E  | 35344           | Decal, Control   |
| 338   | 590473          | Rewind Starter (Refer to Division 5, Section C, page 29 for breakdown)   |
|       |                 | DIEakuowii)  |
| 340   | 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#342). Refer to service number stamped on end cap of motor, or on decal, for identifica |
| 342   | 30811A          | Flywheel (Ring gear flywheel requiredon engines using 110-120 volt starter kits listed above)  |
| 342   | 611042          | Flywheel (Used on Type letters H and above) (Std. Point ignition) (Ring gear flywheel required on engines using 110-120 volt starter kits listed above)  |
| 342   | 611085          | Flywheel (Minimum ring gear flywheel required on engines using 110-120 volt starter kits listed above) (Use with Solid State ignition)   |



| Ref #            | Part Number    | Qty | Description  |
|------------------|----------------|-----|--|
| 27               | 27513          |     | Lockwasher, 1/4" (Use as required)   |
| 36               | 650697A        |     | Screw, 5/16-18 x 2-1/2" (Use as requi red)   |
|                  | 650695A        |     | Screw, 5/16-18 x 2-1/4" (Use as requi red)   |
|                  | 650694A        |     | Screw, 5/16-18 x 2" (Use as required)  |
|                  | 27896A         |     | * Gasket, Breather cover   |
|                  | 26073          |     | Washer (Use as required)   |
|                  | 650691         |     | Washer, Flat (Use as required)   |
|                  | 650548         |     | Screw, 8-32 x 5/16"  |
|                  | 30319          |     | Rivet, Split (Used in early productio n)   |
| 52               | 32326A         |     | Lever, Governor (New lever does not need 1 of  |
|                  |                |     | 51,66,132,164,165,207)   |
| 55               | 30205          |     | Bracket, Adjusting   |
| 57               | 730130         |     | Exh.Adap.Kit (Incl. 58 & 125) (Use as req.)  |
| 58               | 30196          |     | Screw, 5/16-18 x 3/4" (Use as require d)   |
| 59               | 29216          |     | Nut, Lock, 10-32   |
| 61               | 29826          |     | Screw, 10-32 x 3/4"  |
| 66               | 29918          |     | Lockwasher, #8 E.T.  |
| 82B              | 730561         |     | Air cleaner kit (Incl. 38, 67A, 83, 84B, 85,89B, 89C, 90A, 91,                               |
|                  |                |     | 91A, 91B, 91C, 91D, 245 & 331B) (Use only on engines with                                    |
|                  |                |     | an externally vented fully adjustable carburetor)  |
| 82               | 730127         |     | Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89A, 90, 238 &                                     |
| <b>5</b> _       | . 60 .=.       |     | 331B) (Use as required)  |
| 0.4D             | 24040          |     | , ,  |
| 6 <del>4</del> D | 34819          |     | Air Cleaner Elbow (Incl. 84B, 86A, 91, 91A, 91B & 91C) (Use                                  |
|                  |                |     | in 730561 assembly only) NOTE: 130010 thru 10C & 11 used in early production only.           |
|                  |                |     | used in early production only.   |
|                  | 391026         |     | Opt. Spark Arrest Muffler (Incl.196,1 97,199)  |
|                  | 33353          |     | Bracket, Lower fuel tank   |
|                  | 650561         |     | Screw, 1/4-20 x 5/8"   |
|                  | 33352A         |     | Plate, Upper fuel tank mounting  |
|                  | 29774          |     | Fuel Line (Braided 8-1/4" 21 cm)(Use as req.)  |
|                  | 30705          |     | Fuel Line (Braided 16") (41 cm) (Use as req.)  |
|                  | 30962          |     | Fuel Line (Braided 32") (81 cm) (Use as req.)  |
|                  | 27930A         |     | Gasket, Exhaust  |
|                  | 30196          |     | Screw, 5/16-18 x 3/4"  |
|                  | 650694A        |     | Screw, 5/16-18 x 2" (Use as required)  |
|                  | 650548         |     | Screw, 8-32 x 5/16" (Early production )  |
|                  | 792020         |     | Screw, 1/4-20 x 2-1/4"   |
|                  | 34067          |     | Wire Assy., Alternator adapter (4-1/4 ")   |
|                  | 34069<br>31288 |     | Wire Assy., Alternator adapter (6-3/4 ")  Exp. Adapter Kit (Incl. 125.203.204) (As. rog.)    |
|                  | 650697A        |     | Exh. Adaptor Kit (Incl.125,203,204) ( As req.)<br>Screw, 5/16-18 x 2-1/2" (Use as requi red) |
|                  | 6021A          |     | Screw, 5/16-18 x 1-1/2" (Use as required)  |
|                  | 26460          |     | Clamp, Fuel line   |
| 200              | 20100          |     | Olamp, i del illie   |