

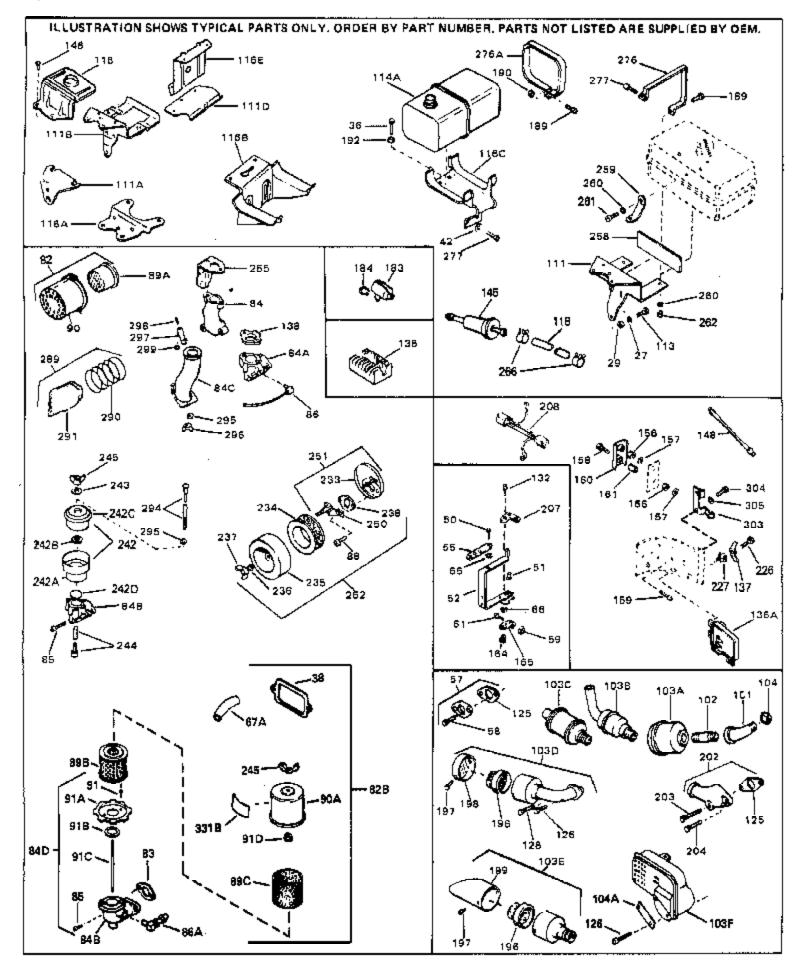
1 32769B Cylinder (Incl. 2. 3. 4, 76 & 270) (234') 2 27652 Phip, Ovel 3 27642 Plug, Ol drain 4 32530 Intake Valve (Skd.) (Incl. 9) 5 327731 Intake Valve (Skd.) (Incl. 9) 6 31470A Exhaust Valve (Skd.) (Incl. 9) 7 20810 Pin, Dvalve spring 7 27851 Spring, Valve 9 32551 Cap, Upper Valve spring 9 32551 Cap, Upper Valve spring 10 34242 Dipper, Ol 11 32880 Crankshaft (Incl. 12. 4. 13) 12 27783 Crankshaft (Incl. 12. 4. 13) 12 27783 Crankshaft (Incl. 12. 4. 13) 13 27881 Spring, Valve 14 32770B Piston & Pin Assy. (1010 °C) (Incl. 16) 14.3 4222 Dipper, Ol 14.4 32777B Piston & Pin Assy. (1010 °C) (Incl. 16) 14.3 43277 Piston & Pin Assy. (1010 °C) (Incl. 16) 14.3 4323 Piston & Pin Assy. (1010 °C) (Incl. 16) 14.3 43253 <th></th> <th></th> <th>Description</th>			Description
3 27642 Plug, Oli drain 4 3630 Seat, Oli 5 32783 Intake Valve (Sk1) (Ind. 9) 6 31460A Exhaust Valve (Sk1) (Ind. 9) 6 31460A Exhaust Valve (Sk1) (Ind. 9) 7 727882 Cap. Upper valve spring 8 27881 Spring, Valve 9 32331 Cap. Upper valve spring 10 34242 Dipper Oil 11 32380 Carakshatt (Ind. 12 & 13) 12 29783 Carakshatt (Gar Pin (Early production) 13 32784 Gear, Crankshatt (Used in early production) 14A 32771B Piston & Pin Assy, (1017 CS) (Ind. 16) 14A 327771B Piston & Pin Assy, (1017 CS) 14 34620 Piston, Pin & Ring Set (1017 CS) 14 34620 Piston, Pin & Ring Set (1017 CS) 14 34620 Piston, Pin & Ring Set (1017 CS) 15 22885<			Cylinder (Incl. 2, 3, 4, 76 & 270) (2 -3/4")
4 26330 Seil, Oli 5 22783 Intake Valve (Std.) (Ind. 9) 6 31469A Exhaust Valve (Std.) (Ind. 9) 7 27882 Cap, Upper valve spring 8 27881 Spring, Valve 9 27881 Spring, Valve 9 22881 Cap, Upper valve spring 9 22881 Cap, Lower valve spring 9 32281 Cap, Lower valve spring 10 34242 Dipper, Oli 11 23800 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Incl. 12 & 13) 13 27884 Gear, Crankshaft (Gear Pin (Early production) 14 34252 Piston & Pin Assy, (Std.) (234'') (Incl. 16) 14A 32770B Piston & Pin Assy, (Std.) (234'') (Incl. 16) 14A 32777B Piston & Pin Assy, (Std.) (234'') (Incl. 16) 143 34529 Piston, Pin & Ring Set (O10' OS) 143 34529 Piston, Pin & Ring Set (O10' OS) 143 34529 Piston, Pin & Ring Set (O2' OS) 153 25996 Ring Set (O2' OS) <td< td=""><td>2</td><td>27652</td><td>Pin, Dowel</td></td<>	2	27652	Pin, Dowel
4 23283 Intake Valve (Std.) (Incl. 9) 5 23784 Intake Valve (Std.) (Incl. 9) 6 31469A Exhaust Valve (Std.) (Incl. 9) 7 27882 Cap, Upper valve spring 8 27881 Spring, Valve 9 32881 Cap, Upper valve spring 9 32881 Spring, Valve 9 32881 Cap, Lower valve spring 9 32881 Cap, Lower valve spring 9 32881 Cap, Lower valve spring 10 34242 Dispert, Oil 11 32880 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Gar 12 & 13) 13 27884 Gear, Crankshaft (Gar 10, 116) 14 32770B Piston & Pin Assy, (100' OS) (Incl. 16) 144 32777B Piston & Pin Assy, (100' OS) (Incl. 16) 143 34528 Piston, Pin Assy, (100' OS) (Incl. 16) 144 32777B Piston & Pin Assy, (100' OS) (Incl. 16) 143 34528 Piston, Pin A Ring Set (100' OS) 143 34529 Piston, Pin A Ring Set (100' OS)	3	27642	Plug, Oil drain
5 22783 Intake Valve (Sk1) (Incl. 9) 6 31469A Exbaust Valve (Sk1) (Incl. 9) 7 20810 Ph, Valve spring retainer (Use as re quired) 7 27882 Cap, Upper valve spring 8 27831 Spring, Valve 8 27831 Cap, Lower valve spring 9 22831 Cap, Lower valve spring 9 322831 Cap, Lower valve spring 10 34242 Dipper, Oil 11 23890 Pate, Lock & Oil dipper (Inis plate may be replaced by 34242 12 29783 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Incl. 12 & 13) 13 27884 Gear, Crankshaft (Ideal in early production) 14 32770B Piston & Pin Assy, (1012 OS) (Incl. 16) 14A 32777B Piston & Pin Assy, (1012 OS) (Incl. 16) 14 34529 Piston, Pin A Sing Set (1017 OS) 14 34529 Piston, Pin A Sing Set (1017 OS) 14 34529 Piston, Pin A Sing Set (1017 OS) 15 32595 Ring Set (1017 OS) 16 32596 Ring Se			0
5 32784 Intake Valve (17.32° CS) (Ind. 9) 6 31470A Exhaust Valve (17.32° CS) (Ind. 9) 7 20810 Pin, Valve Spring reliance (Use as required) 7 27882 Cap, Upper valve spring 8 27881 Spring, Valve 9 32581 Cap, Loner valve spring 9 32581 Cap, Loner valve spring 10 34242 Dipper, Oil 11 32800 Crankshaft (Ind. 12 & 13) 12 29783 Crankshaft (Ind. 12 & 13) 13 27884 Geer, Crankshaft (Ind. 12 & 13) 14 32770B Piston & Pin Assy, (Std.)(2-34°)(Ind. 16) 14A 32770B Piston & Pin Assy, (Std.) (2-34°) 14A 32770B Piston & Pin Assy, (Std.) (2-34°) 14A 3623 Piston & Pin Assy, (Std.) (2-34°) 143 3623 Piston & Pin Assy, (Std.) (2-34°) 143 3623 Piston & Pin Assy, (Std.) (2-34°) 143 3623 Piston Pin & Ring Set (Std.) (2-34°) 143 3623 Piston & Pin Assy, (Std.) (20° CS) 153 25956 Ring Set			
6 31469A Exhaust Valve (Std) (Incl. 9) 7A 20810 Pin, Valve spring retainer (Use as re quired) 7 27882 Cap, Upper valve spring 8 27881 Spring, Valve 9 32581 Cap, Lower valve spring 9 32581 Cap, Lower valve spring 10 322591 Cap, Lower valve spring 10 32242 Dipper Chil 11 32880 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft Gave Pin (Early production) 13 27884 Gear, Crankshaft (Used in early produ crion) 14A 32770B Piston & Pin Assy, (Std) (2-34*)(Incl. 16) 14A 32771B Piston & Pin Assy, (Std) (2-34*)(Incl. 16) 14A 32771B Piston & Pin Assy, (Std) (2-34*)(Incl. 16) 14A 32771B Piston & Pin Assy, (Std) (2-34*)(Incl. 16) 14A 32771B Piston, Pin & Ring Set ((Std) (2-34*) 14 34529 Piston, Pin & Ring Set ((Std) (2-34*) 14 34529 Piston, Pin & Ring Set ((Std) (2-34*) <t< td=""><td></td><td></td><td></td></t<>			
6 31470A Exhaust Value (1/32 ² OS) (find. 9) 7 20810 Pin, Valve spring retainer (Use as re quired) 7 27882 Spring, Valve 8 27881 Spring, Valve 9 32581 Cap, Lover valve spring 9 32581 Cap, Lover valve spring 9 32581 Cap, Lover valve spring 10.3 32580 Plate, Lock & Oli dipper (This plate may be replaced by 9/2422 Dipper, Oli Canishaft (Incl. 12 & 13) 12 29783 Canishaft Gear Pin (Early production) 13 27884 Gear, Canishaft (Used in early production) 14.3 327708 Piston & Pin Assy, (Std) (2347) (Incl. 16) 14.4 327771B Piston & Pin Assy, (Ol0'OS) (Incl. 16) 14.4 32772B Piston, Pin & Ring Set (Std) (2347) Bore) 14.3 32772B Piston, Pin & Ring Set (Std) (2347) Bore) 14.3 32772B Piston, Pin & Ring Set (Std) (2347) Bore) 14.3 34523 Piston, Pin & Ring Set (Std) (2347) Bore) 14.3 34523 Piston, Pin & R			
7A 20810 Pin, Valve spring retainer (Use as re quired) 7 27882 Cap, Upper valve spring 8 27881 Spring, Valve 9A 32581 Cap, Lower valve spring 9 32581 Cap, Lower valve spring 10A 32590 Plate, Lock & Ol dipper full B50662C screw must be used.) 312 25783 Crankshaft Gear Pin (Early production) 11 32880 Crankshaft Gear Pin (Early production) 12 25783 Crankshaft Gear Pin (Early production) 13 227884 Gear, Crankshaft (Used in early produ dion) 14A 32770B Piston & Pin Assy, (Std)(2-34")(in cl 16) 14A 32772B Piston & Pin Assy, (Std)(2-34")(in cl 16) 14A 32772B Piston & Pin Assy, (Std)(2-34")(in cl 16) 14 34529 Piston, Pin & Ring Set (010" OS) 14 34529 Piston, Pin & Ring Set (010" OS) 15 32595 Ring Set (020" OS) 15 32596 Ring Set (020" OS) 16 27888 Ring, Piston pin retaining 17 22591C Rod Assy, Conneeding rod (2 each)			Exhaust Valve (Siu.) (IIIC. 9) Exhaust λ (alve (4/20) (OC) (here) (2)
7 27882 Cap. Upper valve spring 8 27881 Spring, Valve 9A 32581 Cap, Lower valve spring 9 32581 Cap, Lower valve spring 10A 32590 Plate, Lock & Ol dipper Util Stob62C screw must be used.) 10 34242 Dipper, Oli 11 32880 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Incl. 12 & 13) 13 27884 Gear, Crankshaft (Incl. 12 & 13) 14A 327708 Piston & Pin Assy. (Std) (2-34/H Dordu ction) 14A 327718 Piston & Pin Assy. (D01' OS) (Incl. 16) 14A 327728 Piston, Pin & Ring Set (C01' OS) 14 34529 Piston, Pin & Ring Set (C01' OS) 14 34529 Piston, Pin & Ring Set (C01' OS) 14 34529 Piston, Pin & Ring Set (C01' OS) 15 32595 Ring Set (C10' OS) 15 32596 Ring Set (C10' OS) 15 32597 Ring Set (C10' OS) 16 27888 Ring, Piston pin retaining 17 32591C Rod Asy, Connecting (Incl. 10 & 16) <td></td> <td></td> <td></td>			
8 27881 Spring, Valve BA 27881 Spring, Valve 9 32581 Cap, Lower valve spring 10 32590 Plate, Lock & Ol dipper (This plate may be replaced by 34242 oil dipper tot 65062C screw must be used.) 10 34242 Dipper, Oil 11 32880 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Gear Fin (Early production) 13 2784 Gear, Crankshaft (Used in early production) 14 32771B Piston & Pin Assy. (Std) (2-34") (In cl 16) 14 34525 Piston & Pin Assy. (Std) (2-34" Hore) 14 34526 Piston & Pin Assy. (Std) (2-34" Hore) 14 34528 Piston Pin & Ring Set (Std) (C 30" (St) 15 32596 Ring Set (C00" OS) 16 32597 Ring Set (200" OS) 17 32591C Rod Assy. Connecting (Incl. 10 & 18) 18 66062C Screw, Connecting (Incl. 10 & 18) 18 66062C Screw, Connecting (Incl. 10 & 18) 21 15 Carahet (MCR) 22 34034 Lifter, Valve 23 31451A Oly (Incl. 30) 23 3536 Screw, Connecting (Incl. 10 & 18) 24 2460 Seat, Olii (Incl. 30)			
8A 22781 Cap, Lower valve spring 9 32581 Cap, Lower valve spring 10A 32590 Plate, Lock & Oli dipper (This plate may be replaced by 11 34242 Dipper, Oli 12 29783 Crankshaft (Loci. 12 & 13) 12 29783 Crankshaft (Used in early production) 13 27894 Gear, Crankshaft (Used in early production) 14A 32770B Piston & Pin Assy, (Std.)(2-3/4*)(In d.16) 14A 32777B Piston & Pin Assy, (O20* OS) (Incl. 16) 14A 32777B Piston & Pin Assy, (O20* OS) (Incl. 16) 14A 32777B Piston, Pin & Ring Set (010* OS) 14 34529 Piston, Pin & Ring Set (010* OS) 14 34529 Piston, Pin & Ring Set (010* OS) 15 32595 Ring Set (010* OS) 15 32595 Ring Set (010* OS) 16 7288 Ring Set (010* OS) 17 32597 Ring Set (010* OS) 18 650662C Screw, Connecting (Ind. 10 & 18) 23 4034 Lifter, Valve 23 31451A Cylinder			
9A 32581 Cap. Lower valve spring 9 32581 Cap. Lower valve spring 10A 32590 Plate, Lock & Oli dipper (Ditsplate may be replaced by 34242 oil dipper Tott 650662C screw must be used) 11 32680 Crankshaft (Ind. 12 & 13) 12 32783 Crankshaft (Ind. 12 & 13) 13 27884 Gear, Crankshaft (User Pin (Early production) 14 32771B Pliston & Pin Assy, (Std) (2-3/4")(Ind. 16) 14A 32777B Pliston & Pin Assy, (Std) (2-3/4")(Ind. 16) 14A 32777B Pliston & Pin Assy, (Std) (2-3/4")(Ind. 16) 14A 32777B Pliston & Pin Assy, (Std) (2-3/4")(Ind. 16) 14A 32777B Pliston, Pin Assy, (Std) (2-3/4")(Ind. 16) 14 34520 Pliston, Pin Assy, (Std) (2-3/4")(Ind. 16) 14 34520 Pliston, Pin A Sting Set (Std) (2-3/4" Bore) 15 32595 Ring Set (Std) (2-3/4" Bore) 15 32596 Ring Set (CatO" OS) 16 37688 Ring Set (CatO" OS) 17 32591C Carnstaft (MCR) 2 34054 Lifter, Valve 2 34054 Lifter, Valve 2 34054 Lifter, Valve 3 32505 Ying 3 3550 Ying 3 35500 Ying </td <td></td> <td></td> <td>Spring, Valve</td>			Spring, Valve
9 32581 Cap. Lower value sping 10 32590 Plate, Lock & Oli dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 10 34242 Dipper, Oil 11 32880 Crankshaft (Ind. 12 & 13) 12 29783 Crankshaft (Ind. 12 & 13) 13 27884 Gear, Crankshaft (Ind. 12 & 13) 14A 32770B Piston & Pin Assy, (1010° OS) (Ind. 16) 14A 32777B Piston & Pin Assy, (1010° OS) (Ind. 16) 14A 32772B Piston & Pin Assy, (1010° OS) (Ind. 16) 14 34523 Piston, Pin & Ring Set (1010° OS) 14 34529 Piston, Pin & Ring Set (1010° OS) 14 34529 Piston, Pin & Ring Set (102° OS) 15 32595 Ring Set (102° OS) 15 32595 Ring Set (102° OS) 16 27888 Ring Set (102° OS) 17 32591C Rod Assy, Connecting (Ind. 10 & 18) 23 Carshaft (MCR) Ultrer, Valve 23 31451A Cylinder Cover (Ind.24, 106, 300, 31 0 & 311) <tr< td=""><td>8A</td><td>27881</td><td>Spring, Valve</td></tr<>	8A	27881	Spring, Valve
9 32581 Cap. Lower value sping Plate. Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 10 34242 Dipper, Oil 11 32880 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Incl. 12 & 13) 13 27884 Gear, Crankshaft (Incl. 12 & 13) 14A 32770B Piston & Pin Assy, (1010' OS) (Incl. 16) 14A 32777B Piston & Pin Assy, (1010' OS) (Incl. 16) 14A 32772B Piston & Pin Assy, (1010' OS) (Incl. 16) 14A 32772B Piston & Pin Assy, (1010' OS) (Incl. 16) 14 34529 Piston, Pin & Ring Set (1010' OS) 14 34529 Piston, Pin & Ring Set (1010' OS) 15 32595 Ring Set (102' OS) 15 32595 Ring Set (102' OS) 16 27888 Ring Set (1010' OS) 17 32591C Rod Assy, Connecting (Incl. 10 & 18) 18 650662C Screw, Connecting (Incl. 10 & 18) 23 31451A Cylinder Cover (Incl.24, 106, 300, 31 0 & 311) 24 28460	9A	32581	Cap, Lower valve spring
10A 32590 Plaie, Lock & Oil dipper (Dits plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 11 32880 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Gen Plin (Early production) 13 Z7884 Gear, Crankshaft (Gear Plin (Early production) 14A 32770B Pliston & Plin Assy, (Std.)(2-3/4")(In cl. 16) 14A 32771B Pliston & Plin Assy, (Cl07' OS) (Incl. 16) 14A 32772B Pliston & Plin Assy, (Cl07' OS) (Incl. 16) 14 34523 Pliston, Plin & Ring Set (O10' OS) 14 34523 Pliston, Plin & Ring Set (O10' OS) 15 32595 Ring Set (O10' OS) 16 32596 Ring Set (O10' OS) 17 32591C Rod Assy, Connecting (Incl. 10 & 18) 18 650662C Screw, Ononecting (Incl. 10 & 30) 23 31451A Cylinder Cover (Incl.24, 106, 309, 31 0 & 311) 24 24034 Lifter, Valve 23 31451A Cylinder Cover (Incl.24, 106, 309, 31 0 & 311) 24 24034 Lifter, Valve 23			
34242 oil dipper but 650662C screw must be used.) 10 34242 11 32880 Crankshaft (Ind. 12 & 13) 12 29783 Crankshaft (Used in early production.) 13 27884 Gear, Crankshaft (Used in early production.) 14A 32770B Piston & Pin Assy. (Std) (2-344")(In cl. 16) 14A 32772B Piston & Pin Assy. (Std) (2-34")(In cl. 16) 14A 32772B Piston & Pin Assy. (Std) (2-34" Bore) 14 34523 Piston & Pin A Sing Set (Coll'O'S) 14 34523 Piston Pin & Ring Set (Coll'O'S) 15 32595 16 27888 Ring Set (Coll'O'S) 15 32597 16 27888 17 32591C 18 660662C 23451A Cylinder Cover (Incl.24, 106, 309, 31 0 & 311) 24 31451A 234034 Lifter, Valve 234034 Lifter, Valve 23404 Seal, Oil 244800 Seal, Oil <tr< td=""><td></td><td></td><td></td></tr<>			
10 34242 11 3280 12 27733 13 27834 14 $32770B$ 14 $32770B$ 14 $32770B$ 14 $32770B$ 14 $32770B$ 14 $32777B$ 14 $32771B$ 14 $32771B$ 14 $32771B$ 14 $32771B$ 15 32536 15 32536 16 34523 17 34523 16 34523 17 34523 17 34523 18 73536 19 135366 19 135366 19 135366 10 135366 10 135366 10 135366 11 13546 12 34546 13 32596 14 34529 15 32596 16 27888 17 $32591C$ 16 27888 17 $32591C$ 17 $32591C$ 16 27888 17 31546 18 $650662C$ 29 30644 19 31546 20 30634 10 10602 21 $31451A$ 22 34031 23 $30334A$ 24 24460 25 $30011A$ 26 30634 27 373356 27 3733 27 678107 27 3793 27 678107 27 3793 27 3793 27 3793 27 3793 27 3793 27 3794 27 3794 27 37942 27 37942 27 37947 27 37947 27 37947 27 37947 27 37947 27 37947 27 37947 27 37947 27 37947 27 37793 27 3779367 27 3779367 27 3779367 27 3779367 27 377937 27 37	10/1	02000	
11 32880 Cankshaft (Ind. 12.8.13) 12 29783 Crankshaft (Ind. 12.8.13) 13 2784 Gear, Crankshaft (Used in early production) 14A 32770B Piston & Pin Assy. (Std.)(2:34")(Ind.16) 14A 32771B Piston & Pin Assy. (O10' CS) (Ind. 16) 14A 32772B Piston & Pin Assy. (O10' CS) (Ind. 16) 14 34528 Piston, Pin & Ring Set (Std.) (2:34" Bore) 14 34529 Piston, Pin & Ring Set (O10' OS) 14 34529 Piston, Pin & Ring Set (J02' OS) 15 32595 Ring Set (J010' OS) 15 32596 Ring Set (J010' OS) 16 27886 Ring Set (J010' OS) 17 32591C Rod Assy., Connecting (Ind. 10 & 18) 18 650662C Screw, Connecting (Ind. 10 & 18) 19 860662C Screw, Connecting (Ind. 10 & 18) 23 31451A Cylinder Cover (Ind.24, 106, 309, 31 0 & 311) 24 24460 Seal, Oil 23 30451 Screw, 1/4-20 × 1" 30 30580 "O'l Ring 31 650451 Screw			34242 Oli dipper but 0000020 Screw must be used.)
11 32880 Cankshaft (Ind. 12.8.13) 12 29783 Crankshaft (Ind. 12.8.13) 13 2784 Gear, Crankshaft (Used in early production) 14A 32770B Piston & Pin Assy. (Std.)(2:34")(Ind.16) 14A 32771B Piston & Pin Assy. (O10' CS) (Ind. 16) 14A 32772B Piston & Pin Assy. (O10' CS) (Ind. 16) 14 34528 Piston, Pin & Ring Set (Std.) (2:34" Bore) 14 34529 Piston, Pin & Ring Set (O10' OS) 14 34529 Piston, Pin & Ring Set (J02' OS) 15 32595 Ring Set (J010' OS) 15 32596 Ring Set (J010' OS) 16 27886 Ring Set (J010' OS) 17 32591C Rod Assy., Connecting (Ind. 10 & 18) 18 650662C Screw, Connecting (Ind. 10 & 18) 19 860662C Screw, Connecting (Ind. 10 & 18) 23 31451A Cylinder Cover (Ind.24, 106, 309, 31 0 & 311) 24 24460 Seal, Oil 23 30451 Screw, 1/4-20 × 1" 30 30580 "O'l Ring 31 650451 Screw	10	34242	Dipper, Oil
12 29783 Crankshaft (Gear Pin Ceduction) 13 27884 Gear, Crankshaft (Used in early production) 14A 32770B Piston & Pin Assy. (Std.)(2-3/4")(In cl.16) 14A 32771B Piston & Pin Assy. (O10" OS) (Incl. 16) 14A 32772B Piston & Pin Assy. (O10" OS) (Incl. 16) 14 34528 Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 14 34529 Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 15 32595 Ring Set (O10" OS) 15 32596 Ring Set (O10" OS) 15 32597 Ring Set (O10" OS) 16 27888 Ring, Piston pin retaining 17 32591C Rod Assy. Connecting rod (2 each) 21 34054 Lifter, Valve 23 31451A Cylinder Cover (Ind.24, 106, 309, 31 0 & 311) 24 28460 Seal, Oil 25 34051 Gasket, Cylinder rover 28 30451 Screw, 1/4-20 x 1" 30 33590 "O" Ring 31 660489 Screw, 1/4-20 x 5/8" 32 32631A "Gasket, Cylinder rover			
13 27884 Gear, Crankshaft, Used in early production) This gear is servicable onlywhen it is pinned to the crankshaft. 14A 32770B Piston & Pin Assy, (Std.)(2:34")(In C.16) 14A 327772B Piston & Pin Assy, (202' OS) (Incl. 16) 14A 32772B Piston, Pin & Ring Set (Std.) (2:34" Bore) 14 34528 Piston, Pin & Ring Set (101' OS) 14 34529 Piston, Pin & Ring Set (020' OS) 15 32595 Ring Set (Std.) (2:34" Bore) 15 32596 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) 23 31451A Cylinder Cover (Incl.24, 106, 309, 31 0 & 311) 24 2460 Seal, Oil 25 34034 "Ifter, Valve 26 50451 Screw, 104.20 x 1" 30 33990 'O' Ring 31 4600 Seal, Oil 26 50451 Screw, 104.20 x 5/8" 32 323933			
14A 32770B Piston & Pin Assy. (Std)(2:34'')(in d.16) 14A 32777B Piston & Pin Assy. (O10'' OS) (ind. 16) 14A 32772B Piston & Pin Assy. (O20'' OS) (ind. 16) 14A 32772B Piston & Pin Assy. (O20'' OS) (ind. 16) 14 34528 Piston, Pin & Ring Set (Std) (2:34'' Bore) 14 34529 Piston, Pin & Ring Set (O10'' OS) 15 32596 Ring Set (O10'' OS) 15 32596 Ring Set (O10'' OS) 16 27888 Ring Set (O10'' OS) 16 27888 Ring Set (O10'' OS) 17 32591C Rod Assy., Connecting (Ind. 10 & 18) 18 650662C Screw, Connecting (Ind. 10 & 18) 18 650662C Screw, Connecting (Ind. 10, 4 31) 23 31451A Cylinder Cover (Ind.24, 106, 309, 31 0 & 311) 24 28460 Seal, Oil 23 31451A Cylinder Cover 24 28460 Seal, Oil 25 30084 "Gasket, Cylinder nover 28 650481 Screw, 1/4-20			
14A32770BPiston & Pin Assly. (Std.) ($(2-3/4")$ (In cl. 16)14A32771BPiston & Pin Assly. ($(10^{\circ} OS)$ (Incl. 16)14A32772BPiston & Pin Assly. ($(20^{\circ} OS)$ (Incl. 16)1434528Piston, Pin & Ring Set ($(30^{\circ} OS)$ (Incl. 16)1434529Piston, Pin & Ring Set ($(10^{\circ} OS)$ 1434530Piston, Pin & Ring Set ($(10^{\circ} OS)$ 1532595Ring Set ($(10^{\circ} OS)$ 1532596Ring Set ($(10^{\circ} OS)$ 1627888Ring, Piston pin retaining1732591CRod Assy., Connecting (Incl. 10 & 18)23034Lifter, Valve231451Carnshaft (MCR)243034Lifter, Valve234451ACylinder Cover (Incl.24, 106, 309, 31 0 & 311)24B31546Bushing, Crankshaft (Use as required)2428460Seal, Oil2530684"Gasket, Cylinder cover26650451Screw, 1/4-20 x 1"3033580"O' Ring31650489Screw, 1/4-20 x 18"323633AHead, Cylinder3427733Clip, Conduit (Use as required)36650697AScrew, 5/16-18 x 2-1/2" (Use as required)373636Resistor Spark Plug38 <td>15</td> <td>21004</td> <td></td>	15	21004	
14A 32771B Piston & Pin Assy, (010 [°] CS) (incl. 16) 14A 32772B Piston, Pin & Ring Set (3td) (2:34 [°] Bore) 14 34528 Piston, Pin & Ring Set (1010 [°] CS) 14 34530 Piston, Pin & Ring Set (010 [°] CS) 14 34530 Piston, Pin & Ring Set (020 [°] CS) 15 32595 Ring Set (020 [°] OS) 15 32597 Ring Set (020 [°] OS) 16 27888 Ring, Piston pin retaining 17 32591C Rod Assy, Connecting (Incl. 10 & 18) 18 660662C Screw, Connecting rod (2 each) 21 32115 Camshaft (MCR) 21 32115 Camshaft (MCR) 22 34034 Lifter, Valve 23 34546 Bushing, Crankshaft (Use as required) 24 25460 Seal, Oil 25 34011A Dipstick, Oil (Incl. 30) 26 30684 * Gasket, Cylinder cover 28 650451 Screw, 1/4-20 x 1* 30 3350 "O' Ring 31 650499 Screw, 1/4-20 x 18* 32 36514 <td></td> <td></td> <td></td>			
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3827896A* Gasket, Breather cover3928423Body, Breather4028424Element, Breather4128425Cover, Valve spring	37	33636	Resistor Spark Plug (RJ-8C)
3827896A* Gasket, Breather cover3928423Body, Breather4028424Element, Breather4128425Cover, Valve spring	37	34251	Resistor Spark Plug
3928423Body, Breather4028424Element, Breather4128425Cover, Valve spring			
4028424Element, Breather4128425Cover, Valve spring			
41 28425 Cover, Valve spring			
42A 000000 VVasher, Delleville (Use as required)			
	42A	000030	

		<u> </u>	
	Part Number	Qty	Description
	26073		Washer (Use as required)
	650691		Washer, Flat (Use as required)
43	650128		Screw, 10-24 x 1/2"
45	27915A		* Gasket, Intake
46	34712		Flange Carburetor
	30196		Screw, 5/16-18 x 3/4"
	29716		Screw, 1/4-28 x 7/16"
	650548		Screw, 8-32 x 5/16"
	32326A		Lever, Governor (New lever does not need 1 of
52	32320A		
			51,66,132,164,165,207)
55	30205		Bracket, Adjusting
	32327		Link, Throttle
	29216		Nut, Lock, 10-32
	29826		Screw, 10-32 x 3/4"
	29642		Ring, Retaining
63	30699B		Governor Rod Ass'y. (This one-piece governor rodis no longer
			used. It is replaced by 30699C ass'y.,Ref. no. 63A)
637	30699C		Rod Assy., Governor (Incl. 64 & 65)
	30700		Yoke, Governor
	650494		Screw, 6-40 x 5/16"
	29918		Lockwasher, #8 E.T.
	29747B		Screw, 5/16-24 x 21/32"
70	32158E		Blower Housing (For elec.star.)(Incl. 134,135)
71	650815		Washer, Belleville
72	8116		Nut, Hex
	29536		Blower Housing Baffle (without electric starter knock-out)
			(Use as required)
	050504		
73	35256A		Blower Housing Baffle (with electric starter knock-out) (Use as required) (Point Ignition)
74	650561		Screw, 1/4-20 x 5/8"
	31688A		* Gasket, Carburetor
	650517		
			Screw, 1/4-20 x 27/32"
82A	730164		Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89, 90A & 331B)
			(Use as required)
83	27272A		* Gasket, Air cleaner
	35349		Ground Wire
	29538		Base, Engine mounting
	32401		Muffler
	31845		Shaft, Mechanical governor
	30591		Gear Assy., Governor (Incl. 109)
	30588A		Spool, Governor
	30590A		Washer, Flat
110	29193		Ring, Retaining
111C	34158		Bracket, Fuel tank
	650561		Screw, 1/4-20 x 5/8"
	410144B		Fuel Cap (White Plastic)(Std)(As requ ired)
	33032		Fuel Cap (Charcoal Plastic) (Spurt resistant, Low profile)
10			(Use as required)
115	34210		Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as
			required)
	35355		Fuel Cap (Use as required)
116D	34159		Plate, Fuel tank mounting
118	29774		Fuel Line (Braided 8-1/4" 21 cm)(Use as req.)
	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.)
120	650128	Screw, 10-24 x 1/2" (Use as required)
121	30622A	Extension, Blower housing
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)
	650694A	Screw, 5/16-18 x 2" (Use as required)
	32589	Key, Flywheel
	31843A	Bracket, Governor gear
	650836	Screw, 10-24 x 1/2"
	650599	Screw, 1/4-20 x 1-1/2"
	30747	Clip, Shorting
	650890	Lockwasher
	650665	Screw, 1/4-15 x 7/8"
	610118	Cover, Spark plug (Use as required)
	650561	
	30939A	Screw, 1/4-20 x 5/8" (Use as required)
		Cover, Cylinder head
	650760 28545	Screw, 8-32 x 3/8"
	28545	Grommet
	32125	Cup, Starter
	590417	Screen, Starter cup
	26460	Clamp, Fuel line
	31461	Bushing, Crankshaft (Use as required)
	33876	Gasket, Stator
	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)
	650625	Washer, Thrust
	34346	Decal, Instruction
	34704	Decal, Air cleaner
	34768	Decal, Name
332	30547A	Contact Assy., Breaker
333	30548B	Condenser
334	631021	Inlet Needle, Seat & Clip Assy.
336	632201	Carburetor (Incl. 75) (Refer to Division 5, Section A, page 176
		for breakdown)
337	610689A	Magneto NOTE: The complete magneto is not available as
001		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	590420	Rewind Starter (Refer to Division 5, Section C, page 25 for
		breakdown)
2/12	33239A	Gasket Set (Incl. items marked*)
343		



	Part Number	Qty	Description
	650489		Screw, 1/4-20 x 5/8"
	27793		Clip, Conduit (Use as required)
	28942		Screw, 10-32 x 3/8" (Use as required)
43A	650597		Screw, 10-24 x 5/8"
48	29716		Screw, 1/4-28 x 7/16"
53	32328		Bracket, Speed adjusting (Incl. 239)
54	8269		Washer, Lock (Can be purchased locall y)
56	32327		Link, Throttle
67A	32447		Tube, Breather
68	32446		Grommet, Breather tube
71	650815		Washer, Belleville
72	8116		Nut, Hex
193	610118		Cover, Spark plug (Use as required)
239	33450		Nut, Lock
240	30845A		Bolt, Governor adjusting
263	650764		Nut, "U" Type (Use as required)
274	610973		Terminal Ass'y. (As req. on late prod uction)
	31793		Bearing, Ball
	31855		Retainer, Bearing
	650778		Washer, Lock
	650580		Nut, Lock
	31792		Washer, Thrust
	34768		Decal, Name
	590420		Rewind Starter (Refer to Division 5, Section C, page 25 for
			breakdown)
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 withSolid 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 required)
	650695A		Screw, 5/16-18 x 2-1/4" (Use as required)
	650694A		Screw, 5/16-18 x 2" (Use as required)
	27896A		* Gasket, Breather cover
42	26073		Washer (Use as required)
42	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
	730130		Exh.Adap.Kit (Incl. 58 & 125) (Use as req.)
	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"
	29918		Lockwasher, #8 E.T.
	32447		
			Tube, Breather
82	730127		Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89A, 90, 238 & 331B)
			(Use as required)
900	720561		Air doopor kit (Incl. 29, 674, 92, 94P, 95, 90P, 90C, 004, 01
02D	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)
00			* Cookot Air doopor
	27272A		* Gasket, Air cleaner
84B	34780		Elbow, Air cleaner
84D	34819		Air Cleaner Elbow (Incl. 84B, 86A, 91, 91A, 91B & 91C) (Use
			in 730561 assembly only)
	050/00		
	650163		Screw, 10-32 x 7/8"
86A	30675		Fitting, Breather NOTE: 130010 thru 10C & 11 used in early
			production only.
220	0.1700		
	34783		Filter, Pre-air
89B	34782		Air Cl. Filter & Bracket Assy. (Incl. 91D)
90A	34781		Cover, Air cleaner
	650825		Nut & Lockwasher, 1/4-20
	34699		Bracket, Air cleaner
	34033		
91	a (aaa)		Pop Rivet (1/8" dia.) (Can be bought locally)
	34698A		Gasket, Air cleaner
91C	650826		Stud, 1/4-20 x 6.20, threaded both en ds
103E	391026		Opt. Spark Arrest Muffler (Incl.196,1 97,199)
	650561		Screw, 1/4-20 x 5/8"
	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.)
125	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)
	33356		Terminal
148	34067		Wire Assy., Alternator adapter (4-1/4 ")
	34069		Wire Assy., Alternator adapter (6-3/4 ")
	31288		Exh. Adaptor Kit (Incl.125,203,204) (As req.)
	650697A		Screw, 5/16-18 x 2-1/2" (Use as required)
	6021A		Screw, 5/16-18 x 1-1/2" (Use as required)
	650760		Screw, 8-32 x 3/8"
227	28545		Grommet

Ref #	Part Number (Qty	Description
245	650513		Nut, Wing
266	26460		Clamp, Fuel line
331B	34704		Decal, Air cleaner