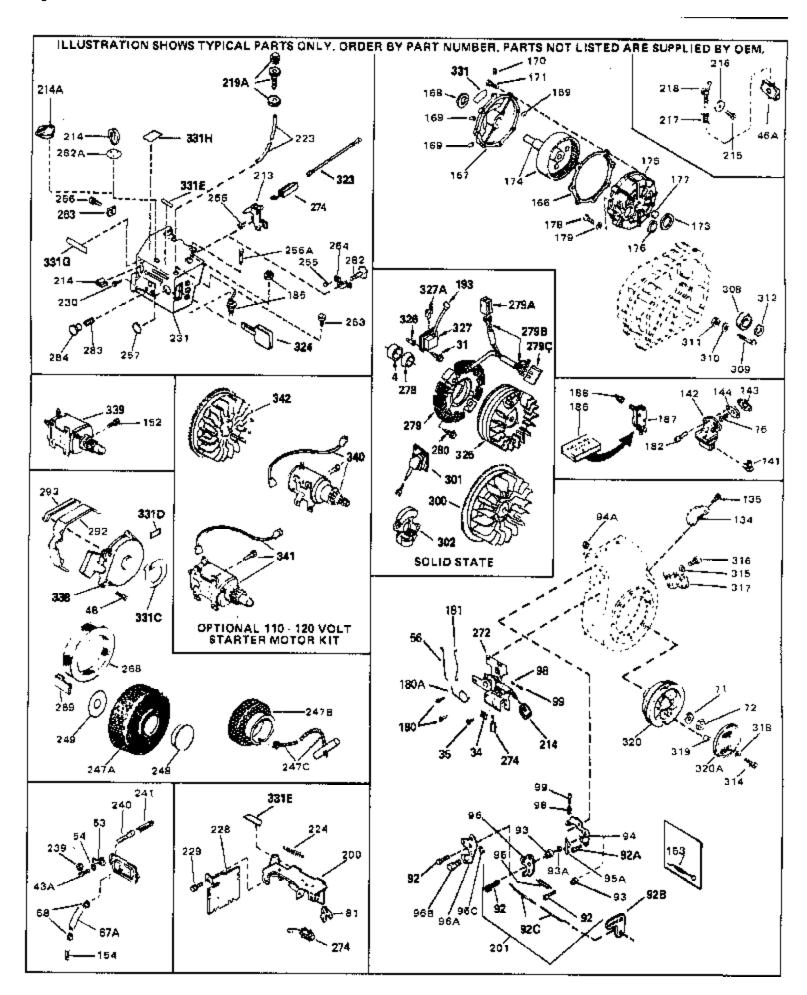


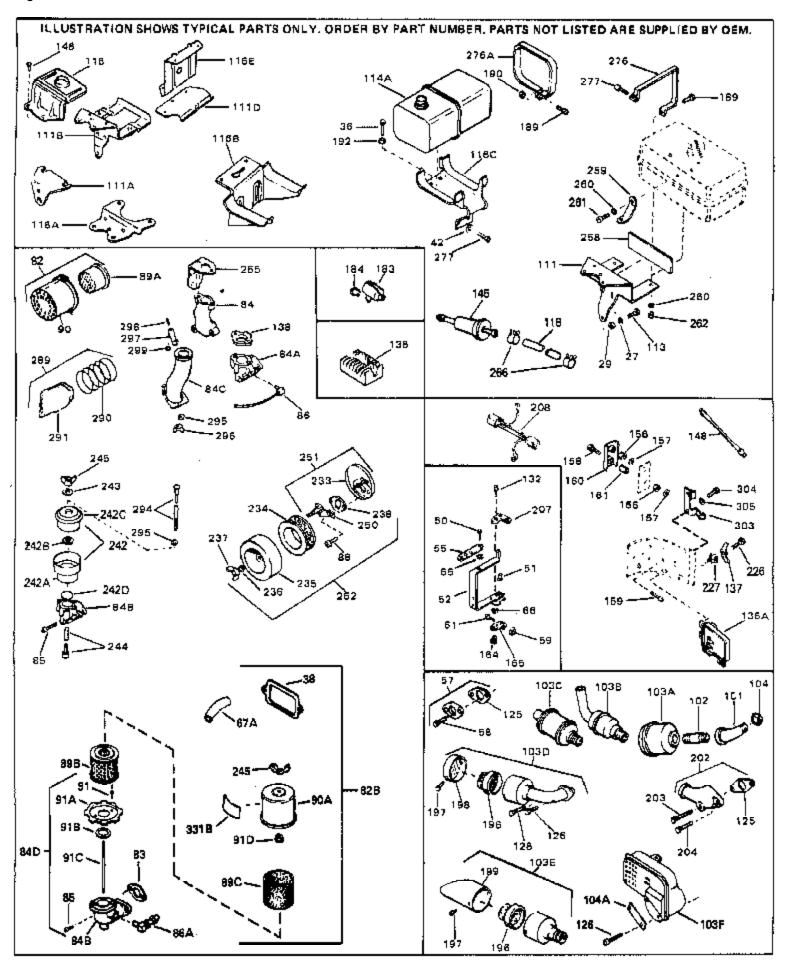
Ref # Part Number   1 32769B   1 32769B   2 77652   Pin, Dowel   Pin, Oblid drain   Seal, Oll   Intake Valve (Std.) (Ind. 9)   Pin, Pin, Valve (Std.) (Ind. 9)   Pin, Valve (Std.) (Ind. 9)   Pin, Pin, Pin, Pin, Pin, Pin, Pin, Pin,				
2 27652 Pin, Dowel 3 27642 Plug, Oil drain 4 33630 Seal, Oil 1 5 32783 Intake Valve (Std.) (Incl. 9) 1 6 27878A Exhaust Valve (Std.) (Incl. 9) 6 27878A 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 A 27881 Spring, Valve 9 A 32591 Spring, Valve 9 A 32591 Cap, Loper valve spring 9 S2531 Cap, Loper valve spring 9 S2531 Cap, Loper valve spring 9 S2531 Cap, Lower valve spring 10 34242 Dipper, Oil 10 34242 Dipper, Oil 11 32773 Cap, Lower valve spring 11 32778 Piston & Pin Assy, (Lower Coy) (Incl. 16) 11 4A 32771B Piston & Pin Assy, (Lower Coy) (Incl. 16) 12 434530 Piston, Pin & Pin Assy, (Lower Coy) (Incl. 16) 13 43529 Piston, Pin & Pin Assy, (Lower Coy) (Incl. 16) 14 34529 Piston, Pin & Ring Set (Lower Coy) (Incl. 16) 15 32596 Ring Set (Std.) (2-34* Bore) 16 32596 Ring Set (Std.) (2-34* Bore) 17 32596 Ring Set (Std.) (2-34* Bore) 18 660662 Sorew, Connecting (Incl. 10 & 18) 18 660662 Sorew, Conne			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 27880A 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 8A 27881 Spring, Valve 9A 32581 Cap, Lover valve spring 9 32581 Cap, Lover valve spring 10A 32590 Plate, Lock & Oil disper (This plate may be replaced by 34242 oil dipper (This plate may be replaced by 34243 oil dipper (This plate may be replaced by 34242 oil dipper (This plate may be replaced by 34243 oil dipper dipper but a dipp				
4 32630 Seai. Cili 5 32783 Intake Valve (Std.) (Incl. 9) 6 278784 Exhaust Valve (Std.) (Incl. 9) 6 27878A Exhaust Valve (Std.) (Incl. 9) 6 27880A 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 8 A 27881 Spring, Valve 9 A 32581 Cap. Upper valve spring 9 32581 Cap. Upper valve spring 10 A 32580 Piae, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper full 65062C screw must be used.) 10 34242 Dipper, Oil 11 32773 Crankshaft (Gar Pin (Early production ) 12 29783 Crankshaft Gaer Pin (Early production ) 13 27884 Gerankshaft (Saer Pin (Early production ) 14 32770B Piston & Pin Assy, (107 CS) (Incl. 16) 14 34771B Piston & Pin Assy, (107 CS) (Incl. 16) 14 34529 Piston, Pin Assy, (107 CS) (Incl. 16) 14 34529 Piston, Pin Assy, (2020 CS) (Incl. 16) 15 32596 Ring Set (1010 CS) 15 32596 Ring Set (1010 CS) 16 32596 Ring Set (1010 CS) 17 32716 Piston & Piston, Pin & Ring Set (2020 CS) 18 36662C Piston, Pin & Ring Set (2020 CS) 19 31546 Ring Set (2010 CS) 28 31451A Cap. Cap. Cap. Cap. Cap. Cap. Cap. Cap.				·
5 32783	3	27642		Plug, Oil drain
5 32784   Intake Valve (132' OS) (Incl. 9) 6 27878A   Exhaust Valve (132' OS) (Incl. 9) 6 27880A   Exhaust Valve (132' OS) (Incl. 9) 7 27882   Cap. Upper valve spring 7 A 20810   Pin. Valve spring retainer (Use as re quired) 8 27881   Spring, Valve   Spr	4	32630		Seal, Oil
6 278780A Exhaust Valve (Std.) (Ind. 9) 7 27880 Exhaust Valve (Std.) (Ind. 9) 7 27880 Exhaust Valve (Std.) (Ind. 9) 8 27881 8 27881 8 A 27881 9 A 32581 9 A 32581 9 A 32581 10 A 32580 10 A 32580 11 3 34242 11 32773 12 29783 13 27884 14 32770B 14 34770B 14 34529 14 34529 15 14 34529 16 32596 17 32596 18 32596 19 32596 19 32596 19 32597 19 32596 19 32597 19 32696 19 32597 19 32696 19 32696 19 32696 19 32696 19 32696 19 32696 19 32697 20 32694 21 3115 22 3903 23 3115 23 30684 24 26 360894 25 32597 26 360894 26 360894 27 360864 27 37 360864 28 37 360864 39 360864 30 360864	5	32783		Intake Valve (Std.) (Incl. 9)
6 27880A 7 27882 7 27882 7 27882 7 27882 7 27882 7 27882 7 27882 7 27882 7 27881 8 27881 8 27881 8 27881 8 27881 9 3 22581 9 3 22581 10 3 22590 Plate, Look & Oil dipper (This plate may be replaced by 34242 oil dipper but Esoficial Corp. Lower valve spring 9 3 22581 10 3 22590 Plate, Look & Oil dipper (This plate may be replaced by 34242 oil dipper but Esoficial Corp. Lower valve spring 10 34242 Dipper, Oil 11 32773 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Gear Pin (Early production) 13 27884 Crankshaft (Gear Pin (Early production) 14 32770B Plate, Look & Oil dipper to the Soficial Corp. This gear is servicable onlywhen it is pinned to the crankshaft.  14 32770B Plate, No. 8 Pin Assy, (Std.) (2-34") (Incl. 16) 14 3452B Plate, No. 8 Pin Assy, (101" OS) (Incl. 16) 14 3452B Plate, No. 8 Pin Assy, (200" OS) (Incl. 16) 14 3452B Plate, Piston, Pin & Ring Set (101" OS) 15 32596 Plate, Pin Ring Set (101" OS) 15 32596 Ring Set (101" OS) 16 27888 Ring, Piston, Pin & Ring Set (101" OS) 18 660660C Plate Sofield (2-34" Bore) 19 23115 Plate Sofield (2-34" Bore) 19 23115 Plate Sofield (1-2-34" Bore) 19 28400 Plate (1-2-34" Bore) 19 28401 Plate (1-2-34" Bore) 19 28591C Plate (1-2-34" Bore) 19 28601 Plate (1-2-34" Bore) 19 2860	5	32784		Intake Valve (1/32" OS) (Incl. 9)
Exhaust Valve (1/32" OS) (ind. 9) 7 27882 7 20810 8 27881 8 27881 8 27881 8 27881 9 32581 9 32581 10 32590 10 32590 10 32773 11 32773 12 29783 13 277884 14 327708 14 327708 14 327708 15 327884 16 327718 16 327788 17 32778 18 32778 19 32581 10 32590 10 34242 11 327773 12 29783 13 27884 14 327708 15 29783 16 27884 17 29783 18 27780 19 29783 19 29783 10 29783 10 29783 10 29783 10 29783 10 29783 10 29783 10 29783 10 29783 10 29784 10 29783 10 29783 10 29783 10 29783 10 29783 10 29784 10 29785 11 29783 12 29783 13 27884 14 29798 15 29783 16 297884 17 297884 18 297884 18 297884 19 297888 29 297888 29 297888 29 297888 29 297888 29 297888 29 297888 29 297888 29 297888 29 297888 29 297888 29 297888 29 297888 29 297888 29 297888 29 297888 20 2978	6	27878A		, , , ,
7 27882 7 A 20810 8 27881 8 A 27881 9 A 2281 9 A 2281 9 A 2281 9 A 2281 10 A 2290 10 Seption (Use as re quired) 9 A 2281 10 A 2290 10 Seption (Use as re quired) 9 A 2281 10 A 2290 10 A 2290 10 A 2290 10 A 2290 11 Seption (Use as re quired) 10 A 2290 10 A 2290 11 Seption (Use as re quired) 11 Seption (Use as re quired) 12 Seption (Use as re quired) 13 A 2773 12 Seption (Use as replaced by 34242 oil disper (Use (Use A)) 14 A 22773 15 Crankshaft (Incl. 12 & 13) 16 Seption (Use are replaced by 34242 oil disper (Use (Use A)) 17 Seption (Use are replaced by 34242 oil disper (Use (Use A)) 18 Seption (Use are replaced by 34242 oil disper (Use (Use A)) 19 Seption (Use are replaced by 34242 oil disper (Use (Use A)) 19 Seption (Use are replaced by 34242 oil disper (Use (Use A)) 10 A 22773 11 Seption (Use are replaced by 34242 oil disper (Use (Use A)) 11 A 22773 12 Seption (Use are replaced by 34242 oil disper (Use (Use A)) 14 A 32770B 15 Seption (Use are replaced by 34242 oil disper (Use (Use A)) 14 A 34529 15 Seption (Use A) 15 Seption (Use as required) 16 Seption (Use as required) 17 Seption (Use as required) 18 Seption (Use as required) 19 Seption (Use as required) 29 Seption (Use as required) 20 Seption (Use as required) 21 Seption (Use as required) 22 Seption (Use as required) 23 Seption (Use as required)	6	27880A		
7A 20810 8 27881 9 27881 9 27881 9 27881 9 32581 9 32581 10A 32590 10 232590 10 32422 11 32773 12 29783 13 277884 14 327708 14 327708 14 327708 15 327718 16 327718 17 32778 18 327708 19 32581 10A 327884 19 32581 10A 32590 10 34242 20 Dipper, Oil 10 34242 21 Dipper, Oil 11 32773 12 29783 13 27884 14 327708 15 29783 16 277884 17 277884 18 297718 19 Piston & Pin Assy, (Std.)(2-3/4")(In d. 16) 18 43 227718 19 Piston & Pin Assy, (Co20" CO3) (Ind. 16) 19 Piston & Pin Assy, (Co20" CO3) (Ind. 16) 19 Piston & Pin Assy, (Co20" CO3) (Ind. 16) 19 Piston, Pin & Ring Set (Co20" OS) 19 Piston, Pin & Ring Set (Co20" OS) 19 S2596 19 S2596 19 S2597 10 27888 10 28910 10 28484 10 28490 10 2849 10 28490 10 2849 10 28490 10 28696 10 28				
8 277881 8A 277881 8A 277881 9A 32581 9A 32581 9A 32581 Cap, Lower valve spring Parts. Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.)  Dipper, Oil Crankshaft (Incl. 12 & 13) Crankshaft (Incl. 12 & 13) Crankshaft (Lock and Cap) Crankshaft (Incl. 12 & 13) Crankshaft (Incl. 13 & 14)				
8A 27881 9A 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 ) Gear, Crankshaft (Used in early production ) Gear, Crankshaft (Used in early production ) Gear, Crankshaft (Used in early production ) HA 32770B Piston & Pin Assiy. (Std.)(2-3/4*)(In cl.16) Piston & Pin Assiy. (Std.)(2-3/4*)(In cl.16) Piston & Pin Assiy. (O20*) (Os) (Incl. 16) Piston & Pin Assiy. (O20*) (Os) (Incl. 16) Piston & Pin Assiy. (O20*) (Os) (Incl. 16) Piston, Pin & Ring Set (Std.) (2-3/4* Bore) Piston, Pin & Ring Set (O20*) (Os) Piston, Pin & Ring Set (Os0*) (Os0*) (Os0*) Piston, Pin & Ring Set (Os0*) (Os0*) (Os0*) (Os0*) Piston, Pin & Ring Set (Os0*)				
9A 32581 9 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 11 32773 Cranishaft (Incl. 12 & 13) Cranishaft (Clest in early production ) Gear, Crankshaft (Dest in early production ) 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")(Incl. 16) 14A 32771B Piston & Pin Assy. (Jo10" OS) (Incl. 16) 14A 32771B Piston & Pin Assy. (Jo10" OS) (Incl. 16) 14A 32772B Piston & Pin Assy. (Jo20" OS) (Incl. 16) 14A 34528 Piston, Pin & Ring Set (Cl.01" OS) 14 34529 Piston, Pin & Ring Set (Jo20" OS) 15 32595 Ring Set (Std.) (2-34" Bore) 15 32595 Ring Set (Gr0" OS) Ring Set (Cl0" OS				
9 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 Crankshaft (Ind. 12 & 13) Crankshaft (Used in early production.) This gear is servicable onlywhen it is pinned to the crankshaft.  14A 32770B Plate, Crankshaft (Used in early production.) This gear is servicable onlywhen it is pinned to the crankshaft.  14A 32771B Ploton & Pin Assy. (Cold.)(2-34")(Ind. 1-6) Platon & Pin Assy. (Cold.)(2-34" Bore) Platon, Pin & Ring Set (Std.) (2-34" Bore) Platon, Pin & Ring Set (Cold.)(2-34" Bore) P				
Plaire, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper to the 506662C screw must be used.)   10				
34242 idipper but 650662C screw must be used.)  10 34242				
Dipper, Oil	10/4	32390		
Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft Gear Pin (Early production) Gear, Crankshaft Gear Pin (Early production) Gear, Crankshaft (Used in early pr				34242 Oil dipper but 650662C screw must be used.)
Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft Gear Pin (Early production ) 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 cl.16) Piston & Pin Assy. (O20" OS) (Incl. 16) Piston & Pin Assy. (.020" OS) (Incl. 16) Piston & Pin Assy. (.020" OS) (Incl. 16) Piston & Pin Assy. (.020" OS) (Incl. 16) Piston, Pin & Ring Set (Std.) (2-34" Bore) Piston, Pin & Ring Set (Std.) (2-34" Bore) Piston, Pin & Ring Set (Std.) (2-34" Bore) Piston, Pin & Ring Set (.020" OS) Ring Set (Std.) (2-34" Bore) Piston, Pin & Ring Set (.020" OS) Ring Set (.010" OS) Piston, Pin & Ring Set (.020" OS) Ring Set (.010" OS) Ring Set (.010" OS) Ring Set (.010" OS) Ring Set (.020" OS) Rin	10	34242		Dipper, Oil
12 29783 13 27884	11	32773		• •
Gear, Crankshaft (Used in early produ ction) This gear is servicable onlywhen it is prinned to the crankshaft.  14A 32770B 14A 32771B 15In Assy, (2010" OS) (Incl. 16) 14A 32772B 15In Assy, (2010" OS) (Incl. 16) 14A 32772B 15In Assy, (2020" OS) (Incl. 16) 14 34528 15in Assy, (2020" OS) (Incl. 16) 15in Assy, (2020" OS)				
servicable onlywhen it is pinned to the crankshaft.  14A 32770B 14A 32771B 14A 32771B 15ton & Pin Assy. ((Std.)(2-3/4")(In cl.16) 14A 32772B 15ton & Pin Assy. ((010" OS) (Incl. 16) 14 34528 15ton, Pin & Ring Set (Std.) (2-3/4" Bore) 14 34529 15ton, Pin & Ring Set (Std.) (2-3/4" Bore) 15 32596 16 32596 17 32596 18 Ring Set (Std.) (2-3/4" Bore) 18 32597 19 Ring Set (010" OS) 10 Ring Set (010" OS) 11 32591C 12 7888 13 Ring, Piston pin retaining 14 32591C 15 Rod Assy., Connecting (Incl. 10 & 18) 18 650662C 19 32115 20 34034 21 31451A 22 34034 23 31451A 24 28460 25 84 26 31297 26 30684 27 31297 26 30684 28 650451 29 32573 30 29673 31 650489 32 32631A 33 3933A 34 27793 35 28942 36 650695A 37 34251 38 27898A 39 28423 40 28424 40 28424 40 28424 40 28424 40 28424 40 28424 40 28424 40 28424 40 28424 40 28424 40 28424 40 28424 40 28425 40 28424 40 28425 40 28424 40 28				
Piston & Pin Ass'y. (Std.)(2-3/4")(In cl.16)	.0	00 .		
14A   32771B				•
14A 32772B				
14 34528 14 34529 15 34530 15 32595 16 32596 17 32596 18 2597 18 2597 18 2597 18 2597 18 2598 18 2598 19 2508 19 2508 19 2508 20 26 26 26 28 28 28 28 28 28 28 28 28 28 28 28 28				
14       34529       Piston, Pin & Ring Set (.010" OS)         14       34530       Piston, Pin & Ring Set (.020" OS)         15       32596       Ring Set (Std) (.2934" Bore)         15       32597       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       31451A       Cylinder Cover (Incl.24, 106, 309, 31 0 & 311)         24       28460       Seal, Oil         24B       31546       Bushing, Crankshaft (Use as required)         25       31297       Dipstick, Oil (Incl. 30)         26       30684       "Gasket, Cylinder cover         28       650451       Screw, 1/4-20 x 1"         30       29673       "Gasket, Oil filler         31       3650489       Screw, 1/4-20 x 58"         32       32631A       *Gasket, Oil filler         33       30938A       Head, Cylinder         34       27793       Cilp, Conduit (Use as required)         36       650695A	14A	32772B		Piston & Pin Ass'y. (.020" OS) (Incl. 16)
14 34530 Piston, Pin & Ring Set (.020" OS) 15 32595 Ring Set (Std.) (2-34" Bore) 15 32596 Ring Set (.010" OS) 15 32597 Ring Set (.020" OS) 16 27888 Ring, Piston pin retaining 17 32591C Rod Assy., Connecting rod (2 each) 18 650662C Screw, Connecting rod (2 each) 21 32115 Camshaft (MCR) 22 34034 Lifter, Valve 23 31451A Cylinder Cover (Incl.24, 106, 309, 31 0 & 311) 24 28460 Seal, Oil 24B 31546 Bushing, Crankshaft (Use as required) 25 31297 Dipstick, Oil (Incl. 30) 26 30684 *Gasket, Cylinder cover 28 650451 Screw, 1/4-20 x 1" 30 29673 *Gasket, Cylinder cover 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 650697A Screw, 5/16-18 x 2-1/2" (Use as required) 37 34251 Resistor Spark Plug (R.1-8C) 38 27896A *Gasket, Breather 40 28424 41 28425 Cover, Valve spring	14	34528		Piston, Pin & Ring Set (Std.) (2-3/4" Bore)
15       32595       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       31451A       Cylinder Cover (Incl.24, 106, 309, 31 0 & 311)         24       28460       Seal, Oil         24B       31546       Bushing, Crankshaft (Use as required)         25       31297       Dipstick, Oil (Incl. 30)         26       30684       * Gasket, Cylinder cover         28       650451       \$Crew, 1/4-20 x 1"         30       29673       * Gasket, Oil filler         31       650489       \$Crew, 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, 1/3-12 (Use as required)         36       650697A       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36 <td< td=""><td>14</td><td>34529</td><td></td><td>Piston, Pin &amp; Ring Set (.010" OS)</td></td<>	14	34529		Piston, Pin & Ring Set (.010" OS)
15       32595       Ring Set (Std.) (2-3/4" Bore)         15       32596       Ring Set (.010" OS)         16       27888       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       31451A       Cylinder Cover (Incl.24, 106, 309, 31 0 & 311)         24       28460       Seal, Oil         24B       31546       Bushing, Crankshaft (Use as required)         25       31297       Dipstick, Oil (Incl. 30)         26       30684       * Gasket, Cylinder cover         28       650451       Screw, 1/4-20 x 1"         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Oylinder head         33       30938A       Head, Cylinder         34       27793       Clip, Conduit (Use as required)         35       28942       Screw, 5/16-18 x 2-1/2" (Use as requi red)         36       650697A	14	34530		Piston, Pin & Ring Set (.020" OS)
15       32596       Ring Set (.010° OS)         16       27888       Ring Set (.020° OS)         17       32591C       Rod Assy., Connecting (Incl. 10 & 18)         18       650662C       Screw, Connecting rod (2 each)         21       32115       Camshaft (MCR)         22       34034       Lifter, Valve         23       31451A       Cylinder Cover (Incl.24, 106, 309, 31 0 & 311)         24       28460       Seal, Oil         24B       31546       Bushing, Crankshaft (Use as required)         25       31297       Dipstick, Oil (Incl. 30)         26       30684       * Gasket, Cylinder cover         28       650451       Screw, 1/4-20 x 1"         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Cylinder head         43       303938A       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 requi red)         37 <td>15</td> <td>32595</td> <td></td> <td></td>	15	32595		
15 32597 16 27888 17 32591C 18 650662C 21 32115 23 4034 22 31451A 23 31451A 24 28460 26 30684 27 3634 28 650451 31 650489 32 32631A 33 0938A 34 27793 35 28942 36 650695A 37 34251 36 650694A 37 33636 37 34251 38 27896A 39 28423 40 28424 41 28425 40 Carshaft (MCR) 28 17 25 17 27 27 28 28 28 28 28 28 28 28 28 28 28 28 3 28 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 28 3 3 27896A 39 28423 40 28424 41 28425  Ring Set (.020" OS) Ring, Piston pin retaining Ring,				
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       31451A       Cylinder Cover (Incl.24, 106, 309, 31 0 & 311)         24       28460       Seal, Oil         24B       31546       Bushing, Crankshaft (Use as required)         25       31297       Dipstick, Oil (Incl. 30)         26       30684       Screw, 1/4-20 x 1"         28       650451       Screw, 1/4-20 x 1"         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Olinder head         43       33       30938A         4       27793       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 2-1/4" (Use as required)         37       34251       Resistor Spark Plug (RJ-8C)         37				
17 32591C 18 650662C 21 32115 22 34034 23 31451A 24 28460 25 31297 26 30684 27 30 29673 31 650489 32 32631A 33 30938A 427793 35 650697A 36 650695A 37 34251 38 27896A 39 28423 40 28424 40 28424 40 28425 40 29404 20 31451A Cylinder Cover (Incl.24, 106, 309, 31 0 & 311) 24 28460 25 31297 26 30684 27 50 20000 28 200000 29 20000000000000000000000000000				· ,
18 650662C 21 32115 22 34034 23 31451A 23 31451A 24 28460 25 31297 26 30684 28 650451 30 29673 31 650489 32 32631A 33 30938A 34 27793 36 650695A 36 650695A 37 34251 38 27896A 39 28423 40 28 34084 28 36084 29 37 38484 20 30 30884 30 30884 30 30938A 3				·
21 32115				• • • • • • • • • • • • • • • • • • • •
22       34034       Lifter, Valve         23       31451A       Cylinder Cover (Incl.24, 106, 309, 31 0 & 311)         24       28460       Seal, Oil         24B       31546       Bushing, Crankshaft (Use as required)         25       31297       Dipstick, Oil (Incl. 30)         26       30684       * Gasket, Cylinder cover         28       650451       Screw, 1/4-20 x 1"         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Cylinder head         43       330938A       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 2-1/2" (Use as requi red)         36       650694A       Screw, 5/16-18 x 2" (Use as required)         37       34251       Resistor Spark Plug (RJ-8C)         38       27896A       * Gasket, Breather cover         39       28423       Body, Breather         40       28424       Element, Breather         41				
23 31451A				
24       28460       Seal, Oil         24B       31546       Bushing, Crankshaft (Use as required)         25       31297       Dipstick, Oil (Incl. 30)         26       30684       * Gasket, Cylinder cover         28       650451       Screw, 1/4-20 x 1"         30       29673       * Gasket, Oil filler         31       650489       Screw, 1/4-20 x 5/8"         32       32631A       * Gasket, Cylinder head         43       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)         36       650694A       Screw, 5/16-18 x 2" (Use as required)         37       34251       Resistor Spark Plug (RJ-8C)         39       28423       Body, Breather         40       28424       Element, Breather         41       28425       Cover, Valve spring				
24B 31546 Bushing, Crankshaft (Use as required) 25 31297 Dipstick, Oil (Incl. 30) 26 30684 *Gasket, Cylinder cover 28 650451 Screw, 1/4-20 x 1" 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) 38 27896A *Gasket, Breather cover 39 28423 Body, Breather 40 28424 Element, Breather 41 28425 Cover, Valve spring				· · · · · · · · · · · · · · · · · · ·
25 31297				·
26 30684  28 650451  30 29673  31 650489  32 32631A  33 30938A  34 27793  35 28942  36 650697A  36 650695A  37 33636  37 334251  38 650489  38 7388et, Cylinder cover  38 Gasket, Oil filler  39 Screw, 1/4-20 x 5/8"  30 Gasket, Cylinder head  30 Screw, 1/4-20 x 5/8"  31 Gasket, Cylinder head  32 Clip, Conduit (Use as required)  33 Crew, 10-32 x 3/8" (Use as required)  34 Crew, 5/16-18 x 2-1/2" (Use as required)  35 Crew, 5/16-18 x 2-1/4" (Use as required)  36 Gasket, Cylinder  37 Gasket, Cylinder  38 Crew, 1/4-20 x 5/8"  39 Crew, 1/4-20 x 5/8"  39 Crew, 1/4-20 x 5/8"  30 Crew, 1/4-20 x 5/8"  30 Crew, 1/4-20 x 5/8"  30 Crew, 1/4-20 x 5/8"  31 Clip, Conduit (Use as required)  32 Crew, 5/16-18 x 2-1/2" (Use as required)  34 Crew, 5/16-18 x 2-1/4" (Use as required)  36 Gasket, Screw, 5/16-18 x 2" (Use as required)  37 Crew, 5/16-18 x 2 " (Use as required)  38 Crew, 5/16-18 x 2 " (Use as required)  39 Crew, 5/16-18 x 2 " (Use as required)  39 Crew, 5/16-18 x 2 " (Use as required)  30 Crew, 5/16-18 x 2 " (Use as required)  31 Crew, 5/16-18 x 2 " (Use as required)  32 Crew, 5/16-18 x 2 " (Use as required)  33 Crew, 5/16-18 x 2 " (Use as required)  34 Crew, 5/16-18 x 2 " (Use as required)  35 Crew, 5/16-18 x 2 " (Use as required)  36 Crew, 5/16-18 x 2 " (Use as required)  37 Crew, 5/16-18 x 2 " (Use as required)  38 Crew, 5/16-18 x 2 " (Use as required)  39 Crew, 5/16-18 x 2 " (Use as required)  39 Crew, 5/16-18 x 2 " (Use as required)  39 Crew, 5/16-18 x 2 " (Use as required)  30 Crew, 5/16-18 x 2 " (Use as required)  31 Crew, 5/16-18 x 2 " (Use as required)  32 Crew, 5/16-18 x 2 " (Use as required)  33 Crew, 5/16-18 x 2 " (Use as required)  34 Crew, 5/16-18 x 2 " (Use as required)  36 Crew, 5/16-18 x 2 " (Use as required)  37 Crew, 5/16-18 x 2 " (Use as required)  38 Crew, 5/16-18 x 2 " (Use as required)  39 Crew, 5/16-18 x 2 " (Use as required)  39 Crew, 5/16-18 x 2 " (Use as required)  39 Crew, 5/16-18 x 2 " (Use as required)  39 Crew, 5/16-18 x 2 " (Use as required)  39 Crew, 5/16-18 x 2 " (Use as required)  30 Crew				· · · · · · · · · · · · · · · · · · ·
28 650451				
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)         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 32 32631A 33 30938A 34 27793 35 28942 36 650697A 36 650695A 37 33636 38 27896A 38 27896A 39 28423 30938A 4 Head, Cylinder 4 Clip, Conduit (Use as required) 5 Crew, 10-32 x 3/8" (Use as required) 5 Crew, 5/16-18 x 2-1/2" (Use as requi red) 5 Crew, 5/16-18 x 2-1/4" (Use as requi red) 5 Crew, 5/16-18 x 2" (Use as requi red) 7 Crew, 5/16-18 x 2" (Use as required) 7 Resistor Spark Plug (RJ-8C) 7 Resistor Spark Plug 7 Saket, Breather cover 7 Body, Breather 8 Body, Breather 8 Element, Breather 8 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				•
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	34	27793		Clip, Conduit (Use as required)
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	35	28942		Screw, 10-32 x 3/8" (Use as required)
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	650697A		Screw, 5/16-18 x 2-1/2" (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		
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				
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 41 28425 Cover, Valve spring				
41 28425 Cover, Valve spring				
, i U				·
42 ZOUTS Washer (Use as required)				
	42	20013		vvasilei (Use as lequileu)

D.(#	Death I sales a	Description
		Description Weeker Flat (Lieu on required)
	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"
50	650548	Screw, 8-32 x 5/16"
52	32326A	Lever, Governor (New lever does not need 1 of
		51,66,132,164,165,207)
FF	20205	Product Adjusting
	30205	Bracket, Adjusting
	31710	Link, Throttle
	29216	Nut, Lock, 10-32
	650152	Screw, 8-32 x 3/8"
	29826	Screw, 10-32 x 3/4"
62	29642	Ring, Retaining
63A	30699C	Rod Assy., Governor (Incl. 64 & 65)
63	30699B	Governor Rod Ass'y. (This one-piece governor rodis no longer
		used. It is replaced by 30699C ass'y.,Ref. no. 63A)
64	30700	Valca Cavarnar
		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
72	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
73	00200A	as required) (Point Ignition)
		as required) (i official interpretation)
74	650561	Screw, 1/4-20 x 5/8"
75	31688A	* Gasket, Carburetor
79	29752	Nut & Lockwasher Assy., 1/4-28
80	650572	Screw, 1/4-28 x 1-1/8"
82A	730164	Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89, 90A & 331B)
		(Use as required)
00	070704	* Cooket Air clooner
	27272A	* Gasket, Air cleaner
87	31691	Bracket, Air cleaner NOTE: 130010 thru 10C & 11 used in
		early production only.
88	28820	Screw, 10-32 x 1/2"
	31715	Body, Air cleaner
	28569	Spring, Compression
	29500	Screw, 8-32 x 3/4"
	29538	Base, Engine mounting
	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"
	31301	Fuel Tank (Incl. 115)
	410144B	Fuel Cap (White Plastic)(Std)(As requ ired)
115	33032	Fuel Cap (Charcoal Plastic) (Spurt resistant, Low profile)
		(Use as required)

	Part Number	Qty	Description
115	34210		Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)
115	35355		Fuel Cap (Use as required)
	29683		Valve, Fuel shut-off
118	29774		Fuel Line (Braided 8-1/4" 21 cm)(Use as req.)
118	30705		Fuel Line (Braided 16") (41 cm) (Use as req.)
	30962		Fuel Line (Braided 32") (81 cm) (Use as req.)
	650128		Screw, 10-24 x 1/2" (Use as required)
121	30622A		Extension, Blower housing
124	650542		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	650599		Screw, 1/4-20 x 1-1/2"
149	30747		Clip, Shorting
150	650890		Lockwasher
193	610118		Cover, Spark plug (Use as required)
205	650561		Screw, 1/4-20 x 5/8" (Use as required )
209	30939A		Cover, Cylinder head
246	32125		Cup, Starter
247	590417		Screen, Starter cup
266	26460		Clamp, Fuel line
270	31461		Bushing, Crankshaft (Use as required)
273	31726B		Control Bracket (Incl. 98, 99, 214 & 274)
274	610973		Terminal Ass'y. (As req. on late prod uction)
275	34043		Spring, Control lever
287	27275		Clip, Hi-tension wire (Use as require d)
287	34246		Clip, Ground wire (Use as required)
313	650625		Washer, Thrust
331A	34346		Decal, Instruction
331	550223		Decal, Name
332	30547A		Contact Assy., Breaker
333	30548B		Condenser
334	631021		Inlet Needle, Seat & Clip Assy.
336	631453		Carburetor (Incl. 75) (Refer to Division 5, Section A, page 100
			for breakdown)
337	610689A		Magneto NOTE: The complete magneto is not available as an assembly. The magneto number is shown for reference purposes only. Order component parts individually, as show in parts list. (Refer to Division 5, Section B, page 24 for breakdown)
343	33239A		Gasket Set (Incl. items marked*)
3.0			,



Pof #	Part Number 0	)tv	Description
-	650489	×ιγ	Screw, 1/4-20 x 5/8"
	27793		Clip, Conduit (Use as required)
	28942		Screw, 10-32 x 3/8" (Use as required)
	650128		Screw, 10-24 x 1/2"
	31710		Link, Throttle
	650815		Washer, Belleville
	8116		Nut, Hex
	28569		Spring, Compression
	29500		Screw, 8-32 x 3/4"
	610118		Cover, Spark plug (Use as required)
	590343		Rope Assy., Starter
247B	28301		Pulley, Rope starter
263	650764		Nut, "U" Type (Use as required)
274	610973		Terminal Ass'y. (As req. on late prod uction)
308	31793		Bearing, Ball
309	31855		Retainer, Bearing
	650778		Washer, Lock
	650580		Nut, Lock
	31792		Washer, Thrust
	550223		Decal, Name
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
0.40	000444		
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)



		/ Description
	27513	Lockwasher, 1/4" (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)
	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
	730130	
		Exh.Adap.Kit (Incl. 58 & 125) (Use as req.)
	30196	Screw, 5/16-18 x 3/4" (Use as require d)
	29216	Nut, Lock, 10-32
	29826	Screw, 10-32 x 3/4"
66	29918	Lockwasher, #8 E.T.
82	730127	Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89A, 90, 238 & 331B)
		(Use as required)
000	700504	( , ,
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)
02	27272A	* Cacket Air deaper
		* Gasket, Air cleaner
84D	34819	Air Cleaner Elbow (Incl. 84B, 86A, 91, 91A, 91B & 91C) (Use
		in 730561 assembly only)
88	28820	Screw, 10-32 x 1/2"
	31700	Element, Air cleaner
	31715	Body, Air cleaner
	30209	Elbow, Exhaust (45 degree)
	30244	Muffler Nipple
	391026	Opt. Spark Arrest Muffler (Incl.196,1 97,199)
103A	29633	Muffler
104	32862	Conduit Nut
111	31694	Bracket, Fuel tank
	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.)
	650694A	Screw, 5/16-18 x 2" (Use as required)
	650548	Screw, 8-32 x 5/16" (Early production )
	34067	Wire Assy., Alternator adapter (4-1/4 ")
	34069	Wire Assy., Alternator adapter (6-3/4 ")
189	6201	Screw, 1/4-28 x 7/8"
202	31288	Exh. Adaptor Kit (Incl.125,203,204) ( As req.)
	650697A	Screw, 5/16-18 x 2-1/2" (Use as requi red)
	6021A	Screw, 5/16-18 x 1-1/2" (Use as required)
	32561	Oil Bath A/C Ass'y.(Incl.242A,242B,24 2C.242D)
	31479	Washer, Fiber
	31670	Bowl, Oil bath cleaner
	31480	"O" Ring
	31669	Cover, Oil bath cleaner
262	29752	Nut, Lock
	26460	Clamp, Fuel line
	31697	Strap, Fuel tank
	29212	Screw, Hex hd. Sems, 1/4-28 x 7/16
211		3010W, 110A 110. 00110, 1/7 20 A 1/10