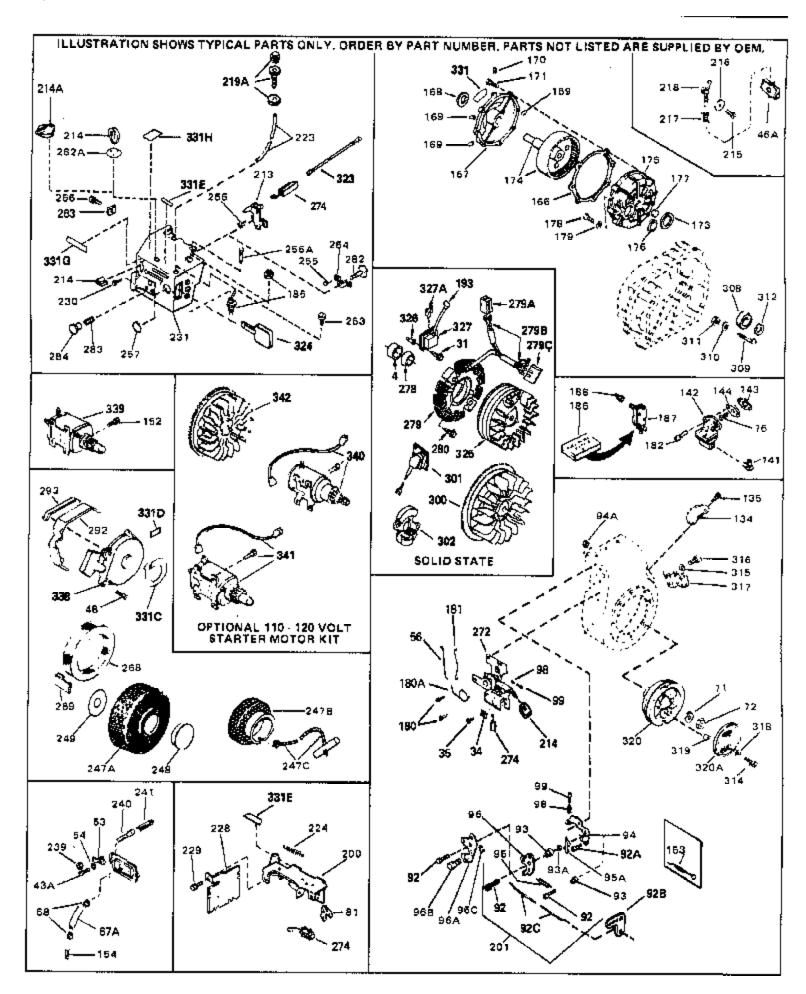


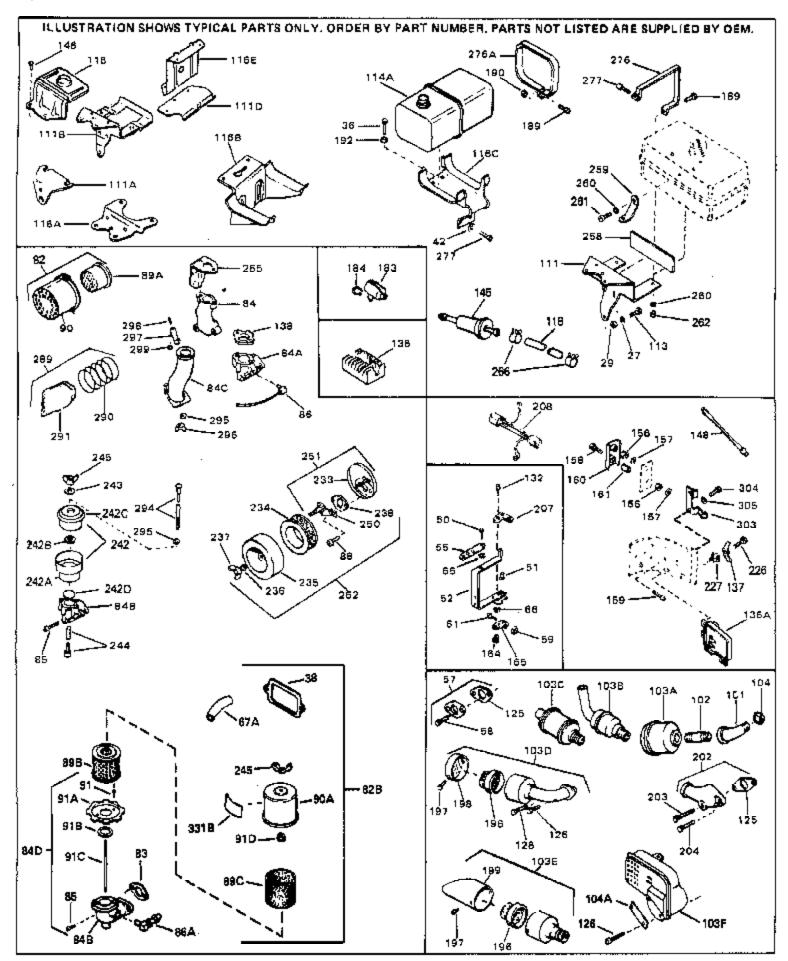
Ref # Part Number				
2 27652 Pin, Dowel 3 27642 Plug, Oil drain 4 23630 Seal, Oil 1 114ke Valve (Sid.) (Incl. 9) 1 12784 Intake Valve (Sid.) (Incl. 9) 6 27878A Exhaust Valve (Sid.) (Incl. 9) 6 27878A Exhaust Valve (Sid.) (Incl. 9) 7 27882 Cap. Upper valve spring 8 A 27881 Spring, Valve 8 27881 Spring, Valve 9 3 2581 Spring, Valve 9 3 2581 Cap. Lower valve spring 10 3 2581 Cap. Lower valve spring 10 3 2581 Cap. Lower valve spring 10 3 3424 Dipper, Oil 10 3424 Dipper, Oil 11 2 29783 Cranicated (Incl. 12 & 13) 12 29783 Cranicated (Incl. 12 & 13) 13 27884 Seal Cap. Lower valve spring 14 34517 Plate, Lock & Dipper, Oil 14 34518 Plate, Oil (Jap. 27 Cranicated (Incl. 12 & 13) 14 34519 Plate, Lock & Ring Set (Sid.) (2-34* Bore) 14 34519 Plate, Dock & Ring Set (Sid.) (2-34* Bore) 14 3 2593B Plate, Oil A Ring Set (Sid.) (2-34* Bore) 15 2593B Plate, Oil A Ring Set (Sid.) (2-34* Bore) 16 2593B Plate, Oil A Ring Set (Sid.) (2-34* Bore) 17 3 2591C Robert States (Incl. 12 & 13) 18 600682C Screw Incl. 12 & 13 19 Spring, Valve 2 Briston, Pin A Ring Set (Oil O') (Incl. 16) 18 600682C Screw Incl. 12 & 13 2 13 3130B Cover, Cranicated (Incl. 10 & 18) 3 2 29631 Plate (Incl. 12 & 13) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			Qty	I I
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 7 27882 Cap. Upper valve spring 8 27881 Spring, Valve 8 27881 Spring, Valve 9 32581 Cap. Lower valve spring 9 32581 Cap. Lower valve spring 10A 32590 Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper the 650662C screw must be used.) 10 34242 Dipper, Oil 11 32680A Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Incl. 12 & 13) 13 27884 Cap. Lower Valve spring 14 34517 Plate, Incl. 14 & 14519 14 34519 Plate, Incl. 14 & 14519 14 32593B Plate, Incl. 15 Plate, Incl. 16 Plate, Incl. 16 Plate, Incl. 17 & 15 P				
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 Exhaust Valve (Std.) (Incl. 9) 7 27882 Cap, Upper valve spring retainer (Use as re quired) 7 27881 Spring, Valve 8 27881 Spring, Valve 9 32581 Cap, Upper valve spring 9 32581 Cap, Upper valve spring 9 32581 Cap, Lower valve spring 10A 32590 Pale, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 850662C screw must be used.) 10 34242 Dipper, Oil 11 32680A Crankshaft (Incl. 12 & 13) 12 27884 Crankshaft (Gae Pin (Early production) 13 27884 Crankshaft (Gae 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 34529B Piston & Pin Assy, (Std.) (2-34* Bore) 15 32598 Piston & Pin Assy, (1010* OS) (Incl. 16) 16 32598 Piston & Pin Assy, (1010* OS) (Incl. 16) 17 32591 Ring Set (Std.) (2-34* Bore) 18 650662C Screw (1010* OS) 18 660662C Rod Assy, Connecting (Incl. 10 & 18) 28 62597 Ring Set (O20* OS) 29 16 27888 Ring, Piston pin retaining 17 32591C Rod Assy, Connecting (Incl. 10 & 18) 29 2973 Ring Set (O20* OS) 21 32115 Canshaft (Use as required) 21 32116 Canshaft (Use as required) 22 34034 Lifter, Valve 23 4034 Lifter, Valve 24 28427 Seal, Oil 25 2968 Dipston (Oil (Incl. 30) 26 30684 Gasket, Oylinder cover 27 36 560698A Screw, 14-20 x 518* 27 39 560698A Screw, 14-20 x 518* 28 30 30930A Head, Cylinder head 29 42424 Element, Breather 4 128425 Cover, Verlagenter 5 26060 Cover, Verlagenter 5 26060 Cover, Verlagenter 5 26060 Cover, Verlagenter 5 26060 Cover, Verlagenter 6 260600 Cover, Verlagenter 7 2606000 Cover, Verlagenter 8 2606000 Cover, Verlagenter 9 260600 Cover, Verlagenter				
5 32783 Intake Valve (Std.) (Incl. 9) 5 32784 Intake Valve (1/32° CS) (Incl. 9) 6 27880A Exhaust Valve (1/32° CS) (Incl. 9) 7 27882 Exhaust Valve (1/32° CS) (Incl. 9) 7 27882 Exhaust Valve (1/32° CS) (Incl. 9) 7 27882 Cap. Upper valve spring Petainer (Use as re quired) 7 27882 Cap. Upper valve spring Part (Incl. 9) 9 22581 Spring, Valve (1/32° CS) (Incl. 9) 9 22581 Cap. Lower valve spring Pate way be replaced by 34242 oil disport but 650662C screw must be used.) 10 34242 Dipper, (Ii) 11 32680A Crankshaft (Incl. 12 & 13) 12 27884 Cap. Lower valve spring Pate, Lock & Oil dipper this plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 11 327884 Crankshaft (Incl. 12 & 13) 12 27884 Crankshaft (Incl. 12 & 13) 13 277884 Crankshaft (Incl. 12 & 13) 14 34518 Piston, Pin & Ring Set (Std.) (234" Sore) 14 34519 Piston, Pin & Ring Set (O10" OS) 14 34519 Piston, Pin & Ring Set (O10" OS) 14 32593B Piston & Pin Assy, (301) (OS) (Incl. 16) 15 32596 Piston & Pin Assy, (301) (OS) (Incl. 16) 16 32597 Ring Set (O10" OS) (Incl. 16) 17 32596 Ring Set (O10" OS) 18 6 27888 Ring, Piston pin retaining Rod (Std.) (234" Bore) 18 6 650662C Screw Connecting (Incl. 10 & 18) 18 6 650662C Screw Connecting (Incl. 24, 106 & 279) 24 28427 Set (100" OS) 25 2968 Dipston, Valve (Incl. 24, 106 & 279) 26 29698 Dipston, Valve (Incl. 24, 106 & 279) 27 28 3038 Piston & Pin Assy, (Online) 28 6 650498 Crankshaft (Incl. 24, 106 & 279) 29 29 29 29 29 29 29 29 29 29 29 29 29 2	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 retainer (Use as re quired) 7 27881 Spring, Valve 8 27881 Spring, Valve 9 32581 Cap, Lower valve spring 9 32581 Cap, Lower valve spring 10A 32590 Pale, Lock & Oil dipper (This plate may be replaced by 3/42/2 oil dipper but 680682C screw must be used.) 10 34242 Dipper, Oil 11 32680A Crankshaft (Gae Pin (Early production) 12 29783 Crankshaft (Gae Pin (Early production) 13 27884 Cap, Lower valve spring 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 34519 Piston, Pin & Ring Set (Orl O'OS) (incl. 16) 15 32598 Piston & Pin Assy, (Soll) (2-34" Bore) 15 32596 Ring Set (Sid.) (2-34" Bore) 16 32597 Ring Set (Gol'O'OS) (incl. 16) 17 32596 Ring Set (Orl O'OS) (incl. 16) 18 650662C Rod Assy, Connecting rod (2 each) 21 32115 Canshaft (MCR) 22 34034 Lifter, Valve Set (Orl O'OS) (incl. 16) 23 313038 Cover, Cylinder (Incl. 24, 106 & 279) 24 3427 Set (Orl O'OS) (incl. 279) 25 2668 Dipstok (Oil (Incl. 30) Dipstok (Dipstok (Oil (Incl. 30) Dipstok (Dipstok (Oil (Incl. 30) Dipstok (Dipstok (Dipstok (Oil (Incl. 30) Dipstok (Dipstok (Di	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 retainer (Use as re quired) 7 27881 Spring, Valve 8 27881 Spring, Valve 9 32581 Cap, Lower valve spring 9 32581 Cap, Lower valve spring 10A 32590 Pale, Lock & Oil dipper (This plate may be replaced by 3/42/2 oil dipper but 680682C screw must be used.) 10 34242 Dipper, Oil 11 32680A Crankshaft (Gae Pin (Early production) 12 29783 Crankshaft (Gae Pin (Early production) 13 27884 Cap, Lower valve spring 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 34519 Piston, Pin & Ring Set (Orl O'OS) (incl. 16) 15 32598 Piston & Pin Assy, (Soll) (2-34" Bore) 15 32596 Ring Set (Sid.) (2-34" Bore) 16 32597 Ring Set (Gol'O'OS) (incl. 16) 17 32596 Ring Set (Orl O'OS) (incl. 16) 18 650662C Rod Assy, Connecting rod (2 each) 21 32115 Canshaft (MCR) 22 34034 Lifter, Valve Set (Orl O'OS) (incl. 16) 23 313038 Cover, Cylinder (Incl. 24, 106 & 279) 24 3427 Set (Orl O'OS) (incl. 279) 25 2668 Dipstok (Oil (Incl. 30) Dipstok (Dipstok (Oil (Incl. 30) Dipstok (Dipstok (Oil (Incl. 30) Dipstok (Dipstok (Dipstok (Oil (Incl. 30) Dipstok (Dipstok (Di	5	32783		Intake Valve (Std.) (Incl. 9)
6 27878A Exhaust Valve (Std.) (find. 9) 6 27880A Exhaust Valve (17.25 OS) (find. 9) 7. 27882 Exhaust Valve (17.25 OS) (find. 9) 7. 27882 C. 2. Upper valve spring retainer (Use as re quired) 7. 27882 S. 27881 Spring, Valve 8. 27881 Spring, Valve 9. 32881 Spring, Valve 10. 4222 Dipper, Oil 10. 34242 Dipper, Oil 11. 32680A Crankshaft (Lot 2 & 1.3) 12. 29783 Crankshaft (Gar Pin (Early production) 13. 27884 Service of Crankshaft (Gar Pin (Early production) 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) (Incl. 16) 15. 32595 Piston & Pin Assy, (1010' OS) (Incl. 16) 16. 32595 Ring Set (0.10' OS) 17. 32591C Rod Assy, Cornecting (Incl. 10 & 18) 18. 32591B Piston & Pin Assy, (100' OS) 18. 32591C Rod Assy, Cornecting (Incl. 10 & 18) 18. 365065C Screw Cornecting (Incl. 10 & 18) 18. 36506SC Screw Cornecting (Incl. 24, 106 & 279) 248 31546 Bushing, Crankshaft (Use as required) 25 29668 Dipstick, Oil (Incl. 30) 26 30684 Gasket, Ojinder (Incl. 24) 27 33 30338 Head (Ojinder (Incl. 24) (Use as required) 37 30536 Resistor Spark Plug (RJ-8C) 38 27995A Gasket, Dinder cover 39 28423 Bost (10 20' 1				, , ,
6 27880A Exhaust Valve (1/32* OS) (ind. 9) 7 A 20810 Pin, Valve spring relainer (Use as re quired) 7 27882 Cap, Upper valve spring 8 27881 Spring, Valve 8 27881 Spring, Valve 9 3 22581 Cap, Lower valve spring 9 3 22581 Cap, Lower valve spring 10A 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 336800A Crankshaft (Ind. 1.2 & 1.3) 12 29783 Crankshaft (Gear Pin (Early production) 13 27884 Gear Pin (Early production) 14 24517 Piston, Pin & Ring Set (3010* (2-34* Bore) 14 34518 Piston, Pin & Ring Set (3010* OS) 14 34518 Piston, Pin & Ring Set (3010* OS) 14 34519 Piston, Pin & Ring Set (3010* OS) 14 32592B Piston & Pin Assy, (3010* OS) (Ind. 16) 14 32594B Piston & Pin Assy, (3010* OS) (Ind. 16) 15 32596 Ring Set (1010* OS) 16 27888 Ring Set (020* OS) 16 27888 Ring Set (020* OS) 17 32591C Rod Assy, Connecting (Ind. 10 & 18) 18 660662C Screw, Connecting (Ind. 10 & 18) 19 12 31303B Cover (2010* OS) 19 12 32415 Cash (Ind. 2010* OS) 19 12 32434 Bore) 19 12 31546 Bushing, Crankshaft (INde as required) 19 12 32631 Piston & Pin Assy, (100* OS) (Ind. 16) 19 12 32668 Dipstick, Oil (Ind. 24, 106 & 279) 19 12 32631 Piston & Pin Assy, (100* OS) 19 12 32631 Piston & Pin Assy, (100* OS) 19 12 32668 Dipstick, Oil (Ind. 20) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661 Piston & Pin Assy, (100* OS) 19 12 32661				
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7 27881 8A 27881 8A 27881 8 27881 9A 32881 10A 32990 Pale, Lock & Oil dipper (This plate may be replaced by 32424 oil dipper but 650682C screw must be used.) 10 34242 11 33680A 12 29783 13 27884 Piston, Pin & Ring Set (Std) (2-34" Bore) 14 34517 15 34518 16 34518 17 Piston, Pin & Ring Set (101" OS) 18 4 34518 18 4 34519 19 Piston, Pin & Ring Set (101" OS) 18 4 32594B 18 14 34519 19 Piston, Pin & Ring Set (101" OS) 18 14 32594B 18 15 32595B 18 15 32595 18 32596 18 32596 18 32596 18 32597 18 27888 19 Ring Set (102" OS) 19 3291C 10 Rod Assy, Connecting (Incl. 10 & 18) 18 650662C 19 32115 29 34034 28 2427 24 31303B 24 28427 24 31546 25 29668 26 30684 26 30684 27 325115 31 560489 32 326314 31 330398A 34 27793 36 650695A 37 3425 38 650695A 38 26423 39 28423 40 28424 41 28425 40 28427 40 28427 40 28427 40 28427 41 28427 41 28427 42 31 330398 42 28427 43 33 30398A 44 27793 46 650695A 47 36264 48 37986A 49 286423 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28424 41 28425 40 28426 41 28425 40 28426 41 28427 41 28427 41 28427 41 28427 41 28427 41 28427 41 28427 41 28427 41 28427 41 28427 42 28427 43 28427 44 28427 45 28427 46 28427 47 28427 48 28427 49 28427 49 28427 59 28 28 28 28 28 28 28 28 28 28 28 28 28				, , , ,
8A 27881 Spring, Valve 8 27881 Spring, Valve 9A 32581 Cap, Lower valve spring 10A 32581 Cap, Lower valve spring 10A 32580 Palte, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 10 34242 Dipper, Oil 11 32680A Dipper, Oil 12 29783 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Gear Pin (Early production) 13 27884 Servicable onlywhen it is pinned to the crankshaft. 14 34517 Piston, Pin & Ring Set (1010" OS) 14 34519 Piston, Pin & Ring Set (1010" OS) 14 34519 Piston, Pin & Ring Set (1010" OS) 14 32538 Piston & Pin Assy, (1041" OS) (Incl. 16) 15 32595 Ring Set (Std.) (2-34" Bore) 16 32594B Piston & Pin Assy, (1020" OS) (Incl. 16) 17 32591C Ring Set (1010" OS) 18 60662C Screw, Connecting (Incl. 10 & 18) 18 60662C Screw, Connecting (Incl. 10 & 18) 19 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 24 28427 Seal, Oil 25 2668 Dipstok, Oil (Incl. 30) 26 2673 Screw, Cover Os) 26 26694 Screw, (14-20 x 51e" 27 3038A Pin Assy (Use as required) 27 32591C Screw, (14-20 x 51e" 28 30393A Head, Cover, (14-20 x 51e" 29 30393A George (Incl. 30) 20 2673 Screw, (14-20 x 51e" 20 30393A Head, Cover, (14-20 x 1-14" 26 30 29673 Screw, (14-20 x 51e" 27 36 6 600695A Screw, (14-20 x 51e" 28 37896A Screw, (16-18 x 2-12" (Use as required) 27 32591 Resistor Spark Plug 28 3223 Body, Breather 29 28422 Body, Breather 20 28423 Body, Breather 21 28425 Cover, Valve spring				• • • • • • • • • • • • • • • • • • • •
8 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) 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.				
9A 32581 9 32581 Cap, Lower valve spring 10A 32590 Replace spring 10A 32590 Replace spring 10A 32590 Replace Solid dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 10 34242 Dipper, Oil 11 32680A Crankshaft (Incl. 12 & 13) Crankshaft (Gear Pin (Early production) Gear, Crankshaft (Used in 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) Piston, Pin & Ring Set (1010" OS) Piston, Pin & Ring Set (1020" OS) Piston, Pin & Ring Set (1020" OS) Piston & Pin Assiv, (Std.)(2-34") (Incl. 16) Piston & Pin Assiv, (Std.)(2-34") (Incl. 16) Piston & Pin Assiv, (1010" OS) (Incl. 16) Piston & Pin Assiv, (1010" OS) Piston & Pin Assiv, (1020" OS) (Incl. 16) Piston & Pin Assiv, (1020" OS) Piston & Pin Assiv,				
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 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Incl. 12 & 13) 13 27884 Gear, Crankshaft (Gear Pin (Early production) 14 34517 Plate, Crankshaft (Gear Pin (Early production) This gear is servicable onlywhen it is pinned to the crankshaft. 14 34518 Piston, Pin & Ring, Set (Stcl.) (2-34* Bore) 14 34519 Piston, Pin & Ring, Set (Oict.) (2-34* Bore) 14A 32592B Piston & Pin Assiy, (Oil*) O'S) (Incl. 16) 14A 32593B Piston & Pin Assiy, (Oil*) O'S) (Incl. 16) 15 32595 Piston & Pin Assiy, (Oil*) O'S) (Incl. 16) 15 32596 Ring Set (Stcl.) (2-34* Bore) 16 27888 Pin Set (Oil*) O'S) 17 32591 Piston & Pin Assiy, (Oil*) O'S) (Incl. 16) 18 650662C Ring Set (Oil*) O'S) 18 600662C Screw, Connecting (Incl. 10 & 18) 24 28427 Seal., Oil 24 31546 Bushing, Crankshaft (Use as required) 25 29608 Dipstick, Oil (Incl. 30) 26673 Gasket, Oylinder (Incl. 24, 106 & 279) 28 60489 Screw, (14-20 x 51-4) 30 30938A Head, Oylinder (Incl. 30) 30 29673 Screw, (14-20 x 51-4) 31 60069A Screw, (14-20 x 51-4) 32 60069A Screw, (14-20 x 51-4) 33 30938A Head, Oylinder (Incl. 24 as required) 34 27793 Ciphorder (19-8 as required) 36 600696A Screw, (14-20 x 51-4) 37 34251 Resistor Spark Plug 37 Gasket, Dylinder (Incl. 24) 38 2422 Body, Seatel, Oil Resistor Spark Plug 39 24223 Body, Seatel, Oil Resistor Spark Plug 40 28424 Element, Breather 41 28425 Cover, Valve spiring				
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 11 32680A 12 29783 13 27884 Crankshaft (floct. 12 & 13) Crankshaft (ear Pin (Early production) Gear. Crankshaft (ear 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 (5td.) (2-34" Bore) Piston, Pin & Ring Set (0.01" OS) Piston & Pin Assy. (5td.) (2-34" Jin d.16) Piston & Pin Assy. (5td.) (2-34" Jin d.16) Piston & Pin Assy. (5td.) (2-34" Bore) Piston & Pin Assy. (5td.) (2-34" Jin d.16) Piston & Pin Assy. (5td.) (2-34" Bore) Piston & Pin Assy. (5td.) (2-34"	10A	32590		Plate, Lock & Oil dipper (This plate may be replaced by
11 32680A 12 29783 13 27884 Crankshaft (Incl. 12 & 13) 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.) (2-3/4" Bore) 14 34518 Piston, Pin & Ring Set (O10" OS) Piston, Pin & Ring Set (C02" OS) Piston, Pin & Ring Set (C02" OS) Piston, Pin & Ring Set (C02" OS) Piston, Pin Assy. (Std.) (2-3/4" (In cl.16) Piston & Pin Assy. (O0" OS) (Incl. 16) Piston & Pin Assy. (O0" OS) (Incl. 16) Piston & Pin Assy. (O0" OS) (Incl. 16) Piston & Pin Assy. (O0" OS) Piston & Pin Asy. (O0" OS) Piston & Pin Assy. (O0" OS) Piston & Pin Assy. (O0" OS) Piston & Pin Assy. (O0" OS) Piston & Pin Asy. (O0" OS) Pisto				34242 oil dipper but 650662C screw must be used.)
11 32680A 12 29783 13 27884 Crankshaft (Incl. 12 & 13) 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.) (2-3/4" Bore) 14 34518 Piston, Pin & Ring Set (O10" OS) Piston, Pin & Ring Set (C02" OS) Piston, Pin & Ring Set (C02" OS) Piston, Pin & Ring Set (C02" OS) Piston, Pin Assy. (Std.) (2-3/4" (In cl.16) Piston & Pin Assy. (O0" OS) (Incl. 16) Piston & Pin Assy. (O0" OS) (Incl. 16) Piston & Pin Assy. (O0" OS) (Incl. 16) Piston & Pin Assy. (O0" OS) Piston & Pin Asy. (O0" OS) Piston & Pin Assy. (O0" OS) Piston & Pin Assy. (O0" OS) Piston & Pin Assy. (O0" OS) Piston & Pin Asy. (O0" OS) Pisto	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) 24 28427 Seal, Oil 25 29668 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 42 42793 Clip, Conduit (Use as required) 52 69694 Screw, 1/4-20 x 1-1/4" 33 30933A Head, Cylinder head 44 27793 Clip, Conduit (Use as required) 56 650697A Screw, 1/6-18 x 2-1/4" (Use as required) 57 660697A Screw, 5/16-18 x 2-1/4" (Use as required) 58 650694A Screw, 5/16-18 x 2-1/4" (Use as required) 59 660694A Screw, 5/16-18 x 2-1/4" (Use as required) 50 680694 Resistor Spark Plug (RJ-8C) 70 78495 Resistor Spark Plug (RJ-8C) 71 8425 Booky, Breather 72 6000 Resistor Spark Plug (RJ-8C) 73 3425 Booky, Breather 74 28425 Booky, Breather				· · · · · · · · · · · · · · · · · · ·
servicable onlywhen it is pinned to the crankshaft. 14 34517				
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 Respect (Jour OS) 18 Ring Set (Jour OS) 18 Ring Set (Jour OS) 19 Piston & Pin Assy. (Jour OS) (Incl. 16) 19 Piston & Pin Assy. (Jour OS) (Incl. 16) 19 Piston & Pin Assy. (Jour OS) (Incl. 16) 15 32596 15 32596 16 27888 17 32597 18 Ring Set (Jour OS) 18 62662C 19 Sorew, Connecting (Incl. 10 & 18) 18 650662C 21 32115 22 34034 23 31303B 26 Cover, Cylinder (Incl. 24, 106 & 279) 24 28427 25 Seal, Oil 25 29668 26 Sorew, Connecting (Incl. 30) 26 30684 27 Seal, Oil 28 650488 28 Sorew, 1/4-20 x 1-1/4" 29 3073 31 650499 32 32631A 31 650499 32 32631A 32 32631A 33 30938A 4 Head, Cylinder 34 27793 36 650695A 37 34251 38 27896A 39 28423 40 28424 41 28425 41 2842	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, (.002" OS) 18 650682C Rod Assy, Connecting (Incl. 10 & 18) 22 34034 Lifter, Valve 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 24 28427 24B 31546 Dispatick, Oil (Incl. 30) 25 29668 Dispatick, Oil (Incl. 30) 26 650488 Cover, Oil Address Screw, 1/4-20 x 1-1/4" 30 29673 Rod Assy, Connecting (Incl. 20) Rod Assy, Connecting (Incl. 30) Rod Assy, Connecting (Incl. 24, 106 & 279) Rod Assy, Connecting (Incl. 30) Rod Assy, Connecting (Incl. 30, 10) Rod (Incl. 30) Rod Assy, Connecting (Incl. 30, 10) Rod (Incl. 30) Rod Assy, Connecting (Incl. 30, 10) Rod (Incl. 30) Rod (Incl. 30) Rod Assy, Connecting (Incl. 30, 10) Rod (Incl. 30) Rod (I				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, (.002" OS) 18 650682C Rod Assy, Connecting (Incl. 10 & 18) 22 34034 Lifter, Valve 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 24 28427 24B 31546 Dispatick, Oil (Incl. 30) 25 29668 Dispatick, Oil (Incl. 30) 26 650488 Cover, Oil Address Screw, 1/4-20 x 1-1/4" 30 29673 Rod Assy, Connecting (Incl. 20) Rod Assy, Connecting (Incl. 30) Rod Assy, Connecting (Incl. 24, 106 & 279) Rod Assy, Connecting (Incl. 30) Rod Assy, Connecting (Incl. 30, 10) Rod (Incl. 30) Rod Assy, Connecting (Incl. 30, 10) Rod (Incl. 30) Rod Assy, Connecting (Incl. 30, 10) Rod (Incl. 30) Rod (Incl. 30) Rod Assy, Connecting (Incl. 30, 10) Rod (Incl. 30) Rod (I	14	34517		Piston, Pin & Ring Set (Std.) (2-3/4" Bore)
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14A 32592B 14A 32593B 14A 32594B 14A 32594B 15 14A 32594B 15 15 32595 16 32595 17 32596 18 17 32597 18 18 2597 18 18 2597 18 27888 18 18 25 (010° OS) 18 27888 19 28 (010° OS) 19 28 (010° OS) 19 28 (010° OS) 10 27888 10 27888 11 28 (010° OS) 11 28 (010° OS) 12 2591C 13 2591C 14 26 2597 15 26 2788 16 27888 17 32591C 18 26 26 20 20 20 20 20 20 20 20 20 20 20 20 20				
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22 34034	21	32115		
23 31303B	22	34034		Lifter. Valve
24 28427 Seal, Oil 24B 31546 Bushing, Crankshaft (Use as required) 25 29668 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 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 34251 Resistor Spark Plug (RJ-8C) 38 27896A * Gasket, Breather cover 40 28424 Element, Breather 41 28425 Cover, Valve spring				
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25 29668				
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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				Screw, 5/16-18 x 2-1/4" (Use as requi red)
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40 28424 Element, Breather 41 28425 Cover, Valve spring				
41 28425 Cover, Valve spring				· · · · · · · · · · · · · · · · · · ·
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42 20073 Washer (Use as required)				• •
	42	20013		vvasilei (Use as requileu)

Ref #	Part Number	Qtv	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)
			· · · · · · · · · · · · · · · · · · ·
	30196		Screw, 5/16-18 x 3/4"
	29716		Screw, 1/4-28 x 7/16"
	650548		Screw, 8-32 x 5/16"
52	32326A		Lever, Governor (New lever does not need 1 of
			51,66,132,164,165,207)
55	30205		Bracket, Adjusting
	31710		Link, Throttle
	29216		Nut, Lock, 10-32
	29826		·
			Screw, 10-32 x 3/4"
	29642		Ring, Retaining
	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		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
			as required) (Point Ignition)
74	650561		Screw, 1/4-20 x 5/8"
	31688A		* Gasket, Carburetor
	29752		Nut & Lockwasher Assy., 1/4-28
	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)
88	28820		Screw, 10-32 x 1/2"
	35349		Ground Wire
	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)
115	34210		Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as
110	J0		required)
445	25255		. ,
	35355		Fuel Cap (Use as required)
	29683		Valve, Fuel shut-off
118	29774		Fuel Line (Braided 8-1/4" 21 cm)(Use as req.)

Ref #	Part Number C	ty De	Pescription
118	30705	Fu	uel Line (Braided 16") (41 cm) (Use as req.)
118	30962		uel Line (Braided 32") (81 cm) (Use as req.)
120	650128	So	crew, 10-24 x 1/2" (Use as required)
121	30622A	E	xtension, Blower housing
124	650542	So	crew, 5/16-18 x 3/4"
127	26073	W	Vasher (Use as required)
128	650694A	So	crew, 5/16-18 x 2" (Use as required)
129	32589	Ke	ey, Flywheel
130	31843A	Br	racket, Governor gear
131	650836	So	crew, 10-24 x 1/2"
133	650493	So	crew, 1/4-20 x 1-3/4"
149	30747	CI	lip, Shorting
193	610118	C	Cover, Spark plug (Use as required)
205	650561	So	crew, 1/4-20 x 5/8" (Use as required)
209	30939A	Co	Cover, Cylinder head
246	32125	Cı	Cup, Starter
247	590417	So	creen, Starter cup
266	26460	Cl	Clamp, Fuel line
270	31461	Βι	ushing, Crankshaft (Use as required)
274	610973	Τe	erminal Ass'y. (As req. on late prod uction)
287	27275	Cl	Clip, Hi-tension wire (Use as require d)
287	34246	Cl	lip, Ground wire (Use as required)
	34346	De	ecal, Instruction
	32679		ecal, 7 HP
332	30547A	C	Contact Assy., Breaker
	30548B		Condenser
	631021		nlet Needle, Seat & Clip Assy.
336	631459		Carburetor (Incl. 75) (Refer to Division 5, Section A, page 100
		fo	or breakdown)
337	610694A	m O	Magneto (w/ring gear for 110 volt sta rter) NOTE: The complete magneto is not available as an assembly. The nagneto 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		lewind Starter (Refer to Division 5, Section C, page 29 for reakdown)
343	33239A	G	Gasket Set (Incl. items marked*)



Ref #	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)
	650128	Screw, 10-24 x 1/2"
	29716	Screw, 1/4-28 x 7/16"
	31710	Link, Throttle
	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"
	32436	Cover, Carburetor
	32398	Bracket, Choke
	28820	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
	31683	Decal, Choke
	32679	Decal, 7 HP
	31682	Decal, Instruction
	35344	Decal, Control
	590473	Rewind Starter (Refer to Division 5, Section C, page 29 for
000	000 11 0	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
V		110-120 volt starter kits listed above)
	044040	,
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
312		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)
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)
38	27896A		* Gasket, Breather cover
42	26073		Washer (Use as required)
42	650691		Washer, Flat (Use as required)
50	650548		Screw, 8-32 x 5/16"
	30319		Rivet, Split (Used in early productio n)
	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.
	730127		Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89A, 90, 238 &
			331B) (Use as required)
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)
84D	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.
88	28820		Screw, 10-32 x 1/2"
101	30209		Elbow, Exhaust (45 degree)
102	30244		Muffler Nipple
103E	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"
118	29774		Fuel Line (Braided 8-1/4" 21 cm)(Use as req.)
	30705		Fuel Line (Braided 16") (41 cm) (Use as req.)
118	30962		Fuel Line (Braided 32") (81 cm) (Use as req.)
128	650694A		Screw, 5/16-18 x 2" (Use as required)
132	650548		Screw, 8-32 x 5/16" (Early production)
148	34067		Wire Assy., Alternator adapter (4-1/4 ")
148	34069		Wire Assy., Alternator adapter (6-3/4 ")
189	6201		Screw, 1/4-28 x 7/8"
	31288		Exh. Adaptor Kit (Incl.125,203,204) (As req.)
203	650697A		Screw, 5/16-18 x 2-1/2" (Use as requi red)
	6021A		Screw, 5/16-18 x 1-1/2" (Use as requi red)
	29752		Nut, Lock
	26460		Clamp, Fuel line
	31697		Strap, Fuel tank
	29212		Screw, Hex hd. Sems, 1/4-28 x 7/16