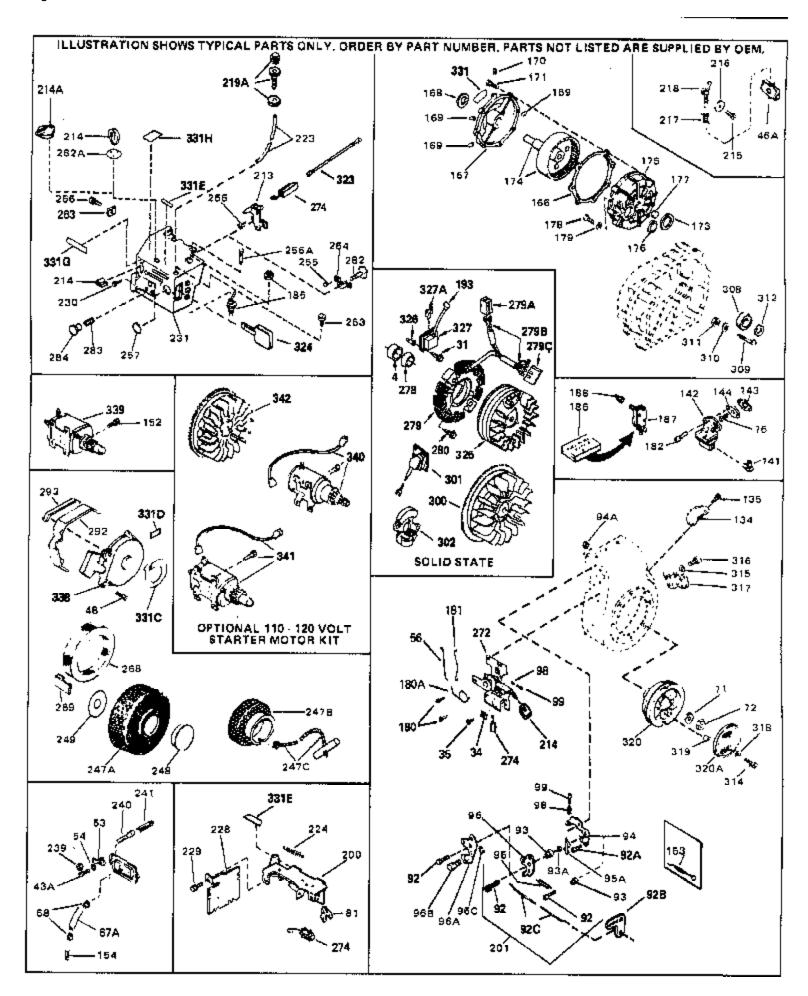


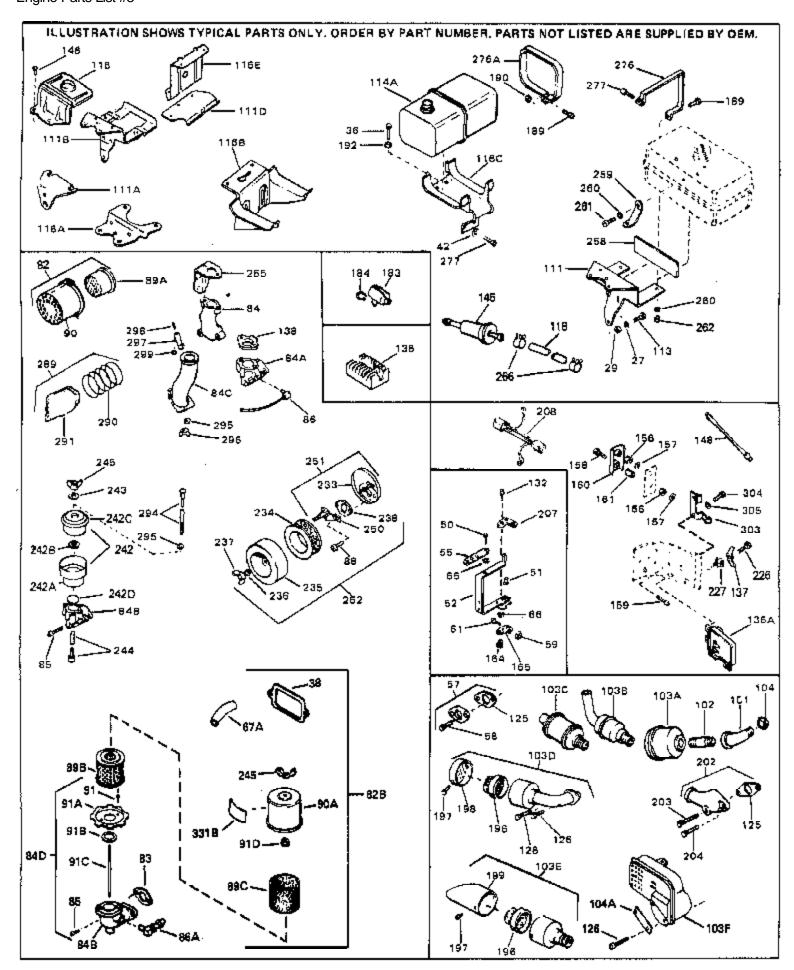
Ref # Part Number				
2 27652 Pin, Dowel 3 27642 Plug, Oil drain 4 23630 Seal, Oil 1 11ake Valve (Sid.) (Incl. 9) 1 15 22784 Intake Valve (Sid.) (Incl. 9) 6 27878A Exhaust Valve (Sid.) (Incl. 9) 6 27878A Exhaust Valve (Sid.) (Incl. 9) 7 27882 Cap, Upper valve spring 7 A 20810 Pin, Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 9 A 32581 Cap, Lower valve spring 10 A 3259 Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 10 3424 Dipper, Oil 10 3422 Dipper, Oil 11 32680A Cranicater (Incl. 12 & 13) 12 29783 Cranicater (Incl. 12 & 13) 13 27884 Seal Spring, Valve 14 32592B Plate, Lock & Oil dipper (Plate) production) 14 34517 Spring, Valve 14 34518 Piston & Pin Assy, (1010' OS) (Incl. 16) 14 34518 Piston & Pin Assy, (1010' OS) (Incl. 16) 14 34519 Piston, Pin Assy, (1010' OS) (Incl. 16) 15 32596 Ripper, Piston, Pin As Ring Set (Oil' O'OS) 16 27888 Ring Set (Oil' O'OS) 16 27888 Ring Set (Oil' O'OS) 16 27888 Ring Set (Oil' O'OS) 17 32591C Rod Assy, Connecting (Incl. 10 & 18) 18 60063C Spring Set (Sid.) (2-34' See) 19 15 32591 Ring Set (Cid') (Cid') Spring, Set (Sid.) (2-34' See) 19 15 32591 Ring Set (Cid') O'OS) 10 26673 Gastet, Ciliforer Cover Connecting (Incl. 10 & 18) 31 30398 Cover, Cylinder (Incl. 24, 106 & 279) 32 48 31546 Bushing, Cranichter (Use as required) 32 600894 Screw, 14-20 x 5-18' 33 30398A Head, Cylinder 34 2793 Cipc, Cord, Ciliforer Cover 35 26697 Screw, 14-20 x 5-18' 36 2660697A Screw, 14-20 x 5-18' 37 34251 Resistor Spark Plug (R-Jac') 38 27896A Screw, 5/16-18 x 2-14' (Use as required) 39 28423 Cover, Cylinder (Incl. 20 as required) 40 28424 Element, Breather 41 28425 Cover Veylinder (Side) 41 28425 Cover Veylinder (Side) 42 26427 Seal (Side) 42 26427 Seal (Side) 43 26424 Seal (Side) 44 26425 Cover Veylinder (Side) 45 26424 Seal (Side) 46 26424 Seal (Side) 47 26424 Seal (Side) 48 26424 Seal (Side) 49 26424 Seal (Side) 40 28424 Seal (Side)			Qty	
3 27642 Plug, Oil drain 4 32630 Seal, Oil 5 32783 Intake Valve (Std.) (Incl. 9) 5 32784 Intake Valve (Std.) (Incl. 9) 6 27878A Exhaust Valve (Std.) (Incl. 9) 6 27880A Exhaust Valve (Std.) (Incl. 9) 7 27882 Cap, Upper valve spring 7A 20810 Pin, Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 8A 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 to 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 14A 32593B Plate, Lock & Pin Assy, (101 'O'S) (Incl. 16) 14A 32593B Plate, A 34519 Plate, Pin Assy, (101 'O'S) (Incl. 16) 15 32595 Ring Set (301) (234" Bore) 16 27888 Ring, Plate, Pin Assy, (202 'OS) (Incl. 16) 17 32597 Ring Set (301) (234" Bore) 18 600662C Screw, Pin & Ring Set (1010' OS) 19 32597 Ring Set (1010' OS) 19 32597 Ring Set (1010' OS) 10 32597 Ring Set (1010' OS) 11 32597 Ring Set (1010' OS) 11 32597 Ring Set (1010' OS) 11 32597 Ring Set (1010' OS) 12 3115 Card Set (1010' OS) 13 3030B Cover, (1010' OS) 14 34519 Plate, Pin Ring Set (1010' OS) 15 32597 Ring Set (1020' OS) 16 27888 Ring, Plate prictaining 17 32591 C Rod Assy, Cornecting rind (2 each) 21 32115 C Rod Set (1020' OS) 22 31303B C Rod Set, Cornecting rind (2 each) 23 31303B C Rod Set, Cornecting rind (2 each) 24 28427 Seal 25 3668 Diplistick, Oil (Incl. 20) 26 3333A Head, Cylinder Incl. 24, 106 & 279) 26 36694A Screw, 14-20 x 158' (Use as required) 27 Screw, 16-16 x 2 x 12' (Use as required) 28 GO9694 Screw, 16-16 x 2 x 12' (Use as required) 29 Core, Cylinder roover 29 Set (1010' OS) 20 Set (1010' OS) 2				
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) 6 27880A Exhaust Valve (Id.32" OS) (Incl. 9) 7 27882 Cap, Upper valve spring 7 20810 Pin, Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 8 27881 Spring, Valve 9 32581 Cap, Upper valve spring 9 32581 Cap, Lower valve spring 10 32590 Pale, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 850662C screw must be used.) 10 34242 Dipper, Oil 1 3680A Crankshaft (Incl. 12 & 13) 11 27884 Garnshaft (Incl. 12 & 13) 12 27894 Crankshaft (Gar Pin (Early production) 14 34593B Piston & Pin Assy, (O20" OS) (Incl. 16) 14 34517 Piston & Pin Assy, (O20" OS) (Incl. 16) 14 34517 Piston & Pin Assy, (O20" OS) (Incl. 16) 14 34519 Piston & Pin Assy, (O20" OS) 15 32596 Ring Set (O10" OS) 16 32596 Ring Set (O10" OS) 16 32597 Ring Set (O10" OS) 17 32591 Ring Set (O10" OS) 18 66662C Screw Ring Set (O20" OS) 19 12 24034 Lifter, Valve 23 31303B Cover, (Valve) 24 2477 Seal, Oil Canshaft (Use as required) 25 2968 Dipstok, Oil (Incl. 30) 26 29673 Ring Set (O10" OS) 27 31165 Bushing Set (O20" OS) 28 28 31038 Cover, (Valve) 29 3251 Scott Set Set Set Set Set Set Set Set Set S				
5 32783 Intake Valve (Std.) (Incl. 9) 5 32784 Intake Valve (1/32° CS) (Incl. 9) 6 27878A Exhaust Valve (1/32° CS) (Incl. 9) 6 27880A Exhaust Valve (1/32° CS) (Incl. 9) 7 27882 Cap. Upper valve spring 7 27882 Cap. Upper valve spring 8 27881 Spring, Valve 9 3 22581 Spring, Valve 9 3 22581 Cap. Lower valve spring 9 22581 Cap. Lower valve spring 10 34242 Dipper, (Ii) 11 32680A Crankshaft (Incl. 12 & 13) 12 27884 Cap. Lower valve spring 13 27884 Cap. Lower valve spring 14 32593 Plate, Lock & Oil dipper this plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 15 27884 Cap. Lower valve spring 16 242 Dipper, (Ii) 17 2884 Crankshaft (Incl. 12 & 13) 18 27884 Crankshaft (Incl. 12 & 13) 19 27884 Crankshaft (Incl. 12 & 13) 10 3442 Dipper, (Ii) 14 32593B Piston & Pin Assy. (1010° 234)' (Incl. 16) 14 34517 Piston, Pin Assy. (1010° CS) (Incl. 16) 14 34518 Piston & Pin Assy. (1010° CS) (Incl. 16) 14 34519 Piston & Pin Assy. (2010° CS) (Incl. 16) 15 32596 Ring Set (1010° CS) 16 32596 Ring Set (1010° CS) 17 32597 Ring Set (1010° CS) 18 6 650662C Screw Connecting (Incl. 10 & 18) 28 16 650662C Screw Connecting (Incl. 24, 106 & 2779) 29 34034 Lifter, Valve (Incl. 24, 106 & 2779) 29 34039 Cap. (Incl. 24) (Incl. 24) (Incl. 24) 29 34034 Lifter, Valve (Incl. 24, 106 & 2779) 29 34039 Cap. (Incl. 24, 106 & 2779) 29 34039 Cap. (Incl. 24, 106 & 2779) 29 34039 Cap. (Incl. 24, 2016 & 2140° Cap. (Incl. 24, 2016 & 2016) 29 36084 Cap. (Incl. 24, 2016 & 2016) 20 36084 Cap. (Incl. 24, 2016 & 2016) 20 36084 Cap. (Incl. 24, 2016 & 2016) 20 36084 Cap. (Incl. 24, 2016 & 2016) 21 3215 Session (Incl. 24, 2016 & 2016) 22 3423 Cap. (Incl. 24, 2016 & 2016) 23 26242 Cap. (Incl. 24, 2016 & 2016) 24 26424 Cap. (Incl. 24, 2016 & 2016) 24 26424 Cap. (Incl. 24, 2016 & 2016) 25 26425 Cap. (Incl. 24, 2016 & 2016) 26 27 27 27 27 27 27 27 27 27 27 27 27 27	3	27642		Plug, Oil drain
5 32784 Intake Valve (1/32" OS) (incl. 9) 6 27878A Exhaust Valve (1/32" OS) (incl. 9) 6 27880A Exhaust Valve (1/32" OS) (incl. 9) 7 27882 Cap. Upper valve spring 7 A 20810 Pin. Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 9 32581 Cap. Upper valve spring 9 32581 Cap. Upper valve spring 10A 32590 Pale, Lock & Oil dipper (This plate may be replaced by 3/42/2 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 14A 32593B Piston & Pin Assy. (O20" OS) (incl. 16) 14A 32593B Piston & Pin Assy. (O20" OS) (incl. 16) 14A 34517 Piston, Pin Assy. (O20" OS) (incl. 16) 14 34517 Piston, Pin & Ring Set (O10" OS) 15 32596 Ring Set (O10" OS) 15 32596 Ring Set (O10" OS) 16 32597 Ring Set (O10" OS) 17 32598 Ring Set (O10" OS) 18 66662C Rod Assy. Connecting rod (2 each) 21 32115 Canshaft (Walver Connecting rod (2 each) 22 34034 Lifter, Valve String of (Incl. 24, 10 & 279) 24 8477 Seal, Oil 25 2968 Dipstok, Oil (Incl. 30) 26 29673 Caps. Valver College of (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	4	32630		Seal, Oil
5 32784 Intake Valve (1/32" OS) (incl. 9) 6 27878A Exhaust Valve (1/32" OS) (incl. 9) 6 27880A Exhaust Valve (1/32" OS) (incl. 9) 7 27882 Cap. Upper valve spring 7 A 20810 Pin. Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 9 32581 Cap. Upper valve spring 9 32581 Cap. Upper valve spring 10A 32590 Pale, Lock & Oil dipper (This plate may be replaced by 3/42/2 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 14A 32593B Piston & Pin Assy. (O20" OS) (incl. 16) 14A 32593B Piston & Pin Assy. (O20" OS) (incl. 16) 14A 34517 Piston, Pin Assy. (O20" OS) (incl. 16) 14 34517 Piston, Pin & Ring Set (O10" OS) 15 32596 Ring Set (O10" OS) 15 32596 Ring Set (O10" OS) 16 32597 Ring Set (O10" OS) 17 32598 Ring Set (O10" OS) 18 66662C Rod Assy. Connecting rod (2 each) 21 32115 Canshaft (Walver Connecting rod (2 each) 22 34034 Lifter, Valve String of (Incl. 24, 10 & 279) 24 8477 Seal, Oil 25 2968 Dipstok, Oil (Incl. 30) 26 29673 Caps. Valver College of (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	5	32783		Intake Valve (Std.) (Incl. 9)
6 27878A Exhaust Valve (Std.) (find. 9) 6 27880A Exhaust Valve (Std.) (find. 9) 7 27882 Cap. Upper valve spring 7 20810 Pin Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 9 A 32881 Cap. Lover valve spring 10 A 32590 Piate, Lock & Oid ipper (This plate may be replaced by 34242 oid dipper but 650662C screw must be used.) 10 34242 Dipper, Oil 11 32680A Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Gaer In (Early production) 13 27884 Servicabet (Used in early production) This gear is servicable onlywhen it is pinned to the crankshaft. 14 A 32592B Piston & Pin Assy. (1010" OS) (Incl. 16) 14 A 32593B Piston & Pin Assy. (1010" OS) (Incl. 16) 14 34517 Piston & Pin Assy. (1010" OS) (Incl. 16) 14 34518 Piston & Pin Assy. (1010" OS) (Incl. 16) 15 32595 Ring Set (1010" OS) 16 32595 Ring Set (1010" OS) 17 32591 Ring Set (1020" OS) 18 32596 Ring Set (1010" OS) 19 32597 Ring Set (1020" OS) 19 32597 Ring Set (1020" OS) 19 32591 CROSSOC Screw Connecting (Incl. 10 & 18) 248 31546 Substant (Incl. 24, 106 & 279) 248 31546 Substant (Incl. 30) 248 31546 Substant (Incl. 30) 248 31546 Substant (Incl. 30) 25 29688 Dipsits, Oil (Incl. 30) 26 30884 Gastet, Oylinder cover Screw, Connecting (Incl. 10 & 18) 27 32591 CROSSOC Screw (Incl. 30) 28 36084 Gastet, Oylinder (Incl. 24, 106 & 279) 38 528942 Screw, 14-20 x 1-14" 39 24425 Screw, 516-18 x 2-14" (Use as required) 30 29673 Gastet, Oylinder (Incl. 24, 106 & 279) 30 26842 Screw, 516-18 x 2-14" (Use as required) 31 30336 Resistor Spark Plug (RJ-8C) 32 3423 Gastet, Dylinder cover Spark Plug (RJ-8C) 33 34251 Resistor Spark Plug (RJ-8C) 34 26424 Element, Breather Cover				, , ,
6 27880A 7 27882 7 27882 Cap, Upper valve spring 7 27882 Cap, Upper valve spring 8 27881 Spring, Valve 8 27881 Spring, Valve 8 27881 Spring, Valve 8 27881 Spring, Valve S				
7 27882 7 A 20810 8 27881 8 A 27881 8 A 27881 8 A 27881 8 A 27881 9 A 32581 9 A 32581 9 A 32581 10 A 32581 10 A 32590 10 B 2590 10 A 3242 11 25800A 11 25800A 12 29783 12 29783 13 27884 14 A 32592B 14 Cap, Lover valve spring 12 29783 13 27884 14 Crankshaff (Incl. 12 & 13) 15 27884 16 Crankshaff (Incl. 12 & 13) 16 Crankshaff (Incl. 12 & 13) 17 28784 18 Crankshaff (Incl. 12 & 13) 18 2598B 19 Crankshaff (Incl. 12 & 13) 19 29783 10 Crankshaff (Incl. 12 & 13) 10 2424 11 32680A 11 2 29783 12 29783 13 27884 14 32592B 14 3 2593B 15 2593B 16 27884 17 2 2 3 2 2 3 2 2 3 2 2 3 2 3 2 3 2 3 2				
7A 20810 8 77881 9 77881 8 77881 9 77881 8 A 277881 9 A 32581 9 A 32581 9 A 32581 9 A 32581 10 A 32590 10 Plate, Lock & Oli dipper (This plate may be replaced by 32424 oli dipper but Eso662C screw must be used.) 10 34242 11 326800A 12 29783 13 277884 14 A 32592B 14 A 32592B 15 Plate, Lock & Oli dipper (This plate may be replaced by 32424 oli dipper but Eso662C screw must be used.) 16 Year (Carakshaft (Incl. 12 & 13) 17 Crankshaft (Gear Pin (Early production.) 18 Servicable onlywhen it is pinned to the crankshaft. 19 Year (Carakshaft (Used in early production.) 19 Year (Carakshaft (Used in early production.) 10 Year (Carakshaft (Used in early production.) 10 Year (Carakshaft (Used in early production.) 11 Year (Carakshaft (Used in early production.) 12 Year (Carakshaft (Used in early production.) 13 Year (Carakshaft (Used in early production.) 14 Year (Used in early production.) 15 Year (Carakshaft (Used in early production.) 16 Year (Valva)				, , ,
8 27881 Spring, Valve 8A 27881 Spring, Valve 9A 32581 Cap, Lower valve spring 9A 32581 Cap, Lower valve spring 10A 32590 Palate, 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 carankshaft. 14A 32592B Piston & Pin Aspy, (Sal) (2-34/9/I) (Incl. 16) 14A 32593B Piston & Pin Aspy, (010" OS) (Incl. 16) 14A 32593B Piston & Pin Aspy, (010" OS) (Incl. 16) 14A 34517 Piston, Pin & Ring Set (Std.) (2-34" Bore) 14 34518 Piston, Pin & Ring Set (Std.) (2-34" Bore) 15 32595 Ring Set (Std.) (2-34" Bore) 15 32596 Ring Set (010" OS) 16 27888 Ring, Piston, Pin & Ring Set (010" OS) 16 27888 Ring, Set (010" OS) 17 32591C Rod Aspy, Connecting (Incl. 10 & 18) 18 650662C Screw, Connecting of (2 each) 19 2115 Carshaft (MCR) 21 32115 Carshaft (Use as required) 22 34034 Lifter, Valve 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 24B 31546 Bushing, Crankshaft (Use as required) 25 29668 Dipstok, Oil (Incl. 30) 26673 Gasket, Oil filler 36 650694 Screw, 14-20 x 5/8" 37 32591 Resistor Spark Plug 38 27896A Screw, 576-18 x 2" (Use as required) 39 28423 Boxy, Breather 41 28425 Cover, Valve spring				
8A 27881 9A 32581 Cap, Lower valve spring 3 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. 14A 32593B Piston & Pin Assy. (Std.)(2-3/4")(In cl.16) Piston & Pin Assy. (Oil O') Cos) (Incl. 16) Piston & Pin Assy. (Oil O') Cos) (Incl. 16) Piston & Pin Assy. (Oil O') Cos) (Incl. 16) Piston & Pin Assy. (Oil O') Cos) Piston, Pin & Ring Set (Std.) (2-3/4" Bore) Piston, Pin & Ring Set (Oil O') Cos) Piston, Pin & Ring				• • • • • • • • • • • • • • • • • • • •
9A 32581 9 32581 Cap, Lower valve spring 9 32581 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) 12 29783 Crankshaft Gear Pin (Early production) Gear, Crankshaft (Used in early produ clion) This gear is servicable onlywhen it is pinned to the crankshaft. 14A 32592B Piston & Pin Assy. (Std.)(2-34*) (Incl. 16) Piston & Pin Assy. (O10* OS) (Incl. 16) Piston & Pin Assy. (O10* OS) (Incl. 16) Piston & Pin Assy. (O10* OS) (Incl. 16) Piston & Pin Assy. (O20* OS) (Incl. 16) Piston, Pin & Ring Set (O10* OS) Piston, Pin & Ring Set (O10* OS) Piston, Pin & Ring Set (O10* OS) Piston, Pin & Ring Set (O20* OS) Piston, Pin & Ring Set (
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 32680A Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Gear Pin (Early production) 13 27884 Gear, Crankshaft (Gear Pin (Early production) 14 29783 Crankshaft (Gear Pin (Early production) 15 2593B Piston & Pin Assy, (Std.)(2-34") (In cl.16) 16 14 A 32593B Piston & Pin Assy, (Std.)(2-34") (In cl.16) 17 14 34517 Piston, Pin & Ring Set (Std.) (2-34" Bore) 18 14 34518 Piston, Pin & Ring Set (Oil" OS) 18 19 Piston, Pin & Ring Set (Oil" OS) 19 15 32595 Ring Set (Std.) (2-34" Bore) 19 15 32595 Ring Set (Std.) (2-34" Bore) 19 16 27888 Ring, Piston, Pin Teataning 17 32591C Rod Assy, Connecting (Incl. 10 & 18) 18 650662C Screw, Connecting (Incl. 10 & 18) 18 650662C Screw, Connecting (Incl. 10 & 18) 24 31546 Bushing, Crankshaft (USe as required) 25 29668 Diston (Incl. 30) 26673 Gasket, Cylinder (Incl. 24, 106 & 279) 28 28673 Piston, Pin Set (Incl. 30) 28 650488 Screw, 1/4-20 x 1-1/4" 29 30254 Gearth (USe as required) 30 29673 Screw, 1/4-20 x 1-1/4" 31 650489 Screw, 1/4-20 x 1-1/4" 32 30938A Head, Cylinder 33 30938A Head, Cylinder 34 28773 Cip, Connotif (Use as required) 36 650694A Screw, 5/16-18 x 2-1/2" (Use as required) 37 34251 Resistor Spark Plug 38 28423 Body, 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 (Incl. 12 & 13) Crankshaft (Gear Pin (Early production) Gear, Crankshaft (Gear Pin (Early production) Gear, Crankshaft (Used in early production) This gear is servicable onlywhen it is pinned to the crankshaft. 14A 32592B Piston & Pin Assy. (Std.)(2-3/4")(In cl. 16) 14A 32594B Piston & Pin Assy. (Std.)(2-3/4")(In cl. 16) 14A 32594B Piston & Pin Assy. (2010" OS) (Incl. 16) 14A 34517 Piston, Pin & Ring Set (Cott) (2-3/4" Bore) 15 34519 Piston, Pin & Ring Set (Cott) OS) 16 32596 Ring Set (Std.) (2-3/4" Bore) Ring Set (Std.) (2-3/4" Bore) Ring Set (Std.) (2-3/4" Bore) Ring Set (O20" OS)	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. 14A 32592B Piston & Pin Ass'y. (Std.)(2-3/4")(In cl. 16) Piston & Pin Ass'y. (O20" OS) (Incl. 16) Piston & Pin Ass'y. (020" OS) (Incl. 16) Piston & Pin Ass'y. (020" OS) (Incl. 16) Piston & Pin Ass'y. (020" OS) (Incl. 16) Piston, Pin & Ring Set (Std.) (2-3/4" Bore) Piston, Pin & Ring Set (O10" OS) Piston, Pin & Ring Set (O10" OS) Piston, Pin & Ring Set (010" OS) Piston, Pin & Ring Set (01				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. 14A 32592B Piston & Pin Ass'y. (Std.)(2-3/4")(In cl. 16) Piston & Pin Ass'y. (O20" OS) (Incl. 16) Piston & Pin Ass'y. (020" OS) (Incl. 16) Piston & Pin Ass'y. (020" OS) (Incl. 16) Piston & Pin Ass'y. (020" OS) (Incl. 16) Piston, Pin & Ring Set (Std.) (2-3/4" Bore) Piston, Pin & Ring Set (O10" OS) Piston, Pin & Ring Set (O10" OS) Piston, Pin & Ring Set (010" OS) Piston, Pin & Ring Set (01	10	24242		Dippor Oil
12 29783				• •
Gear, Crankshaft (Used in early produ ction) This gear is servicable onlywhen it is pinned to the crankshaft. 14A 32592B 14A 32593B 14A 32593B 14A 32594B 14A 32594B 14A 32594B 14A 32594B 14B 34517 14B 34517 15B 2596 15B 2596 15B 2596 15B 2596 16B 27888 17B 2597 18B 2797 1				· · · · · · · · · · · · · · · · · · ·
servicable onlywhen it is pinned to the crankshaft. 14A 32592B 14A 32593B 14A 32593B 15ton & Pin Assy. (0.10" OS) (Incl. 16) 14A 32594B 15ton & Pin Assy. (0.10" OS) (Incl. 16) 15ton & Pin Assy. (0.10" OS) (Incl. 16) 14 34517 15ton, Pin & Ring Set (Std.) (2.34" Bore) 15ton, Pin & Ring Set (.010" OS) 15ton, Pin & Ring Set (.020" OS) 15ton, Pin & Ring Set (.010" OS) 15ton, Pin & Ring Set (.020"				
14A 32592B 14A 32593B 14A 32593B 14A 32594B 14A 32594B 14 34517 15 14 34518 16 15 15 2596 17 15 2596 18 16 27888 18 17 2591C 18 23 4034 19 23 31303B 24 31546 24 28427 25 2668 26 30684 27 326 30884 27793 31 650489 32 28423 30 28423 30 28423 30 28423 30 28423 30 28423 30 28423 30 28423 30 28424 31 50150 34 32596 31 53 2596 31 53 2596 31 53 2596 31 53 2596 31 53 2596 31 53 2596 31 53 2596 31 53 2596 31 53 2596 31 53 2596 31 53 2597 31 62 7888 31 650 78 78 78 78 78 78 78 78 78 78 78 78 78	13	27884		
14A 32593B				servicable onlywhen it is pinned to the crankshaft.
14A 32593B	14A	32592B		Piston & Pin Ass'v (Std.)(2-3/4")(In cl.16)
14A 32594B 14 34517 Piston & Pin Assly. (J020" OS) (Incl. 16) 14 34518 Piston, Pin & Ring Set (Std.) (2-34" Bore) 14 34519 Piston, Pin & Ring Set (J010" OS) 15 32595 Ring Set (J010" OS) 15 32596 Ring Set (J010" OS) 16 27888 Ring Set (J020" OS) 17 32591C Rod Assy, Connecting (Incl. 10 & 18) 18 650662C Screw, Connecting rod (2 each) 21 32115 Camshaft (MCR) 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 24B 31546 Bushing, Crankshaft (Use as required) 24 28427 Seal, Oil 25 29668 Dipstick, Oil (Incl. 30) 26 30684 * Gasket, Cylinder cover 28 650488 Screw, 1/4-20 x 1-1/4" 30 29673 * Gasket, Cylinder head 33 30938A Head, Cylinder 34 27793 Clip, Conduit (Use as required) 35 28942 Screw, 10-32 x 3/8" (Use as required) 36 650697A Screw, 5/16-18 x 2-1/2" (Use as required) 37 3636 Resistor Spark Plug (RJ-8C) 39 28423 Body, Breather Element, Breather 2 Element, Breather				
14 34517 Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 14 34518 Piston, Pin & Ring Set (O10" OS) 15 32595 Ring Set (J01" OS) 15 32596 Ring Set (J01" OS) 15 32597 Ring Set (J01" OS) 16 27888 Ring Set (J01" OS) 17 32591C Rod Assy, Connecting (Incl. 10 & 18) 18 650662C Screw, Connecting rod (2 each) 21 32115 Carnshaft (MCR) 22 34034 Lifter, Valve 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 248 31546 Bushing, Crankshaft (Use as required) 24 22427 Seal, Oil 25 29668 Dipstick, Oil (Incl. 30) 26 30684 "Gasket, Cylinder cover 28 650488 Screw, 1/4-20 x 1-1/4" 30 29673 "Gasket, Cylinder head 31 30938A Head, Cylinder 32 32631A "Gasket, Cylinder head 33 30938A Head, Cylinder 35 28942 Screw, 1/4-20 x 5/8" 36 650697A Screw, 5/16-18 x 2-1/2" (Use as required) 36 650694A Screw, 5/16-18 x 2-1/2" (Use as required) 37 34251 Resistor Spark Plug 38 27896A Screw, 5/16-18 x 2 1/4" (Use as required) 39 28423 Body, Breather 1 Element, Breather 2 Element, Breather				
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41 28425 Cover, Valve spring				· · · · · · · · · · · · · · · · · · ·
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42 20073 Washer (Use as required)				• •
	42	20013		vvasilei (Use as requileu)

Ref #	Part Number	Qty	Description
42	650691		Washer, Flat (Use as required)
42A	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"
48	29716		Screw, 1/4-28 x 7/16"
50	650548		Screw, 8-32 x 5/16"
	32326A		Lever, Governor (New lever does not need 1 of
32	02020/ (51,66,132,164,165,207)
			31,00,132,104,103,207)
55	30205		Bracket, Adjusting
	30824		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)
			about it is replaced by cooded aboy, it con the conty
64	30700		Yoke, Governor
65	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)
71	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
			as required) (Point Ignition)
	050504		, , , ,
	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"
	730164		Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89, 90A & 331B)
02, (766161		(Use as required)
			(Ose as required)
83	27272A		* Gasket, Air cleaner
	31691		Bracket, Air cleaner NOTE: 130010 thru 10C & 11 used in
0.	0.00.		early production only.
			carry production only.
88	28820		Screw, 10-32 x 1/2"
	30727		Element, Air cleaner
	31715		Body, Air cleaner
	35349		Ground Wire
	29538		Base, Engine mounting
	31845		Shaft, Mechanical governor
107	30591		Gear Assy., Governor (Incl. 109)
	30588A		Spool, Governor
	30590A		Washer, Flat
	29193		Ring, Retaining
	30063		Screw, 1/4-20 x 1/2"
	410144B		Fuel Cap (White Plastic)(Std)(As required)
115	33032		Fuel Cap (Charcoal Plastic) (Spurt resistant, Low profile)
			(Use as required)

Ref #	Part Number Qty	Description
115	34210	Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as
		required)
115	35355	Fuel Cap (Use as required)
117A	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"
	650493	Screw, 1/4-20 x 1-3/4"
	30747	Clip, Shorting
	610118	Cover, Spark plug (Use as required)
	650561	Screw, 1/4-20 x 5/8" (Use as required)
	30939A	Cover, Cylinder head
	32125	Cup, Starter
	590417	Screen, Starter cup
266	26460	Clamp, Fuel line
	31461	Bushing, Crankshaft (Use as required)
	610973	Terminal Ass'y. (As req. on late prod uction)
	27275	Clip, Hi-tension wire (Use as require d)
	34246	Clip, Ground wire (Use as required)
331B	31752	Decal, Air cleaner
	550223	Decal, Name
	32546	Decal, Control
	34346	Decal, Instruction
	30547A	Contact Assy., Breaker
	30548B	Condenser
	631021	Inlet Needle, Seat & Clip Assy.
	631454	Carburetor (Incl. 75) (Refer to Division 5, Section A, page 100
		for breakdown)
337	610689A	Magneto NOTE: The complete magneto is not available as
331	010009A	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)
242	33239A	Gasket Set (Incl. items marked*)
343	JUZUJA	Cashel Oel (IIIO. Ilettis Hained)



Ref #	Part Number	Qty	Description
31	650489		Screw, 1/4-20 x 5/8"
	27793		Clip, Conduit (Use as required)
35	28942		Screw, 10-32 x 3/8" (Use as required)
43A	650128		Screw, 10-24 x 1/2"
48	29716		Screw, 1/4-28 x 7/16"
56	30824		Link, Throttle
	650815		Washer, Belleville
	8116		Nut, Hex
	610118		Cover, Spark plug (Use as required)
	33110A		Control Bracket (Incl. 224 & 274)
	30826		Spring, Extension
	650764		Nut, "U" Type (Use as required)
	610973		Terminal Ass'y. (As req. on late prod uction)
	550223		Decal, Name
	32546		Decal, Control
338	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 requi red)
36	650695A		Screw, 5/16-18 x 2-1/4" (Use as requi red)
	650694A		Screw, 5/16-18 x 2" (Use as required)
	27896A		* Gasket, Breather cover
	26073		Washer (Use as required)
	650691		Washer, Flat (Use as required)
	650548		Screw, 8-32 x 5/16"
	30319		Rivet, Split (Used in early productio n)
	32326A		Lever, Governor (New lever does not need 1 of
0 -	0_0_0, (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"
	29918		Lockwasher, #8 E.T.
	730127		Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89A, 90, 238 &
02	730127		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)
02	27272A		
			* Gasket, Air cleaner
0 4 D	34819		Air Cleaner Elbow (Incl. 84B, 86A, 91, 91A, 91B & 91C) (Use in 730561 assembly only)
00	28820		• • • • • • • • • • • • • • • • • • • •
	31715		Screw, 10-32 x 1/2"
	30209		Body, Air cleaner
	32454		Elbow, Exhaust (45 degree)
	391026		Muffler Nipple Opt. Spark Arrest Muffler (Incl.196,1 97,199)
	32043B		Muffler
	32862		Conduit Nut
	30063		Screw, 1/4-20 x 1/2"
	31977		Fuel Tank (Incl. 115)
	31978		Bracket, Fuel tank
	29774		Fuel Line (Braided 8-1/4" 21 cm)(Use as req.)
	30705		Fuel Line (Braided 16") (41 cm) (Use as req.)
	30962 650604A		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 ")
	650451		Screw, 1/4-20 x 1"
	650456		Nut, Lock
	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 requi red)
	26460		Clamp, Fuel line
	31979		Strap, Fuel tank
331B	31752		Decal, Air cleaner