

1 32586C				
2 27652 Pin, Dowel 3 27642 Plug, Oil drain 4 32630 Seal, Oil 1 11ake Valve (Std.) (Incl. 9) 1 15 32784 Intake 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 27881 Spring, Valve 9 A 32581 Spring, Valve 9 A 32581 Spring, Valve 9 A 32581 Cap, Lower valve spring 10 A 32590 Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 10 3424 Dipper, Oil 11 32680A Crankstaft Gear Pin (Early production) 12 29783 Crankstaft Gear Pin (Early production) 13 27884 Searchaft (Used in early production) 14 34517 Searchaft (Used in early production) 14 34518 Piston & Pin Assy, (Xoll) 2-34*(Incl. 16) 15 32594B Piston & Pin Assy, (Xoll) 2-34*(Incl. 16) 16 32595 Right Piston & Pin Assy, (Xoll) 2-34*(Pore) 16 32596 Right Piston & Pin Assy, (Xoll) 2-34*(Pore) 17 32591C Rod Spring, Piston, Pin & Ring Set (Oil'O' OS) 18 260662C Screw Connecting (Incl. 10 & 18) 18 60063C Screw, Connecting (Incl. 10 & 18) 20 30969 Cap, Crankstaft (Use as required) 21 3115 Canshaft (Use) 21 31303 Pore) 22 31038 Piston, Pin & Ring Set (Oil'O' OS) 23 31038 Piston, Pin & Ring Set (Oil'O' OS) 24 31546 Bushing, Crankstaft (Use as required) 24 34547 Seal (Use as required) 25 31297 Dipsick, Oil (Incl. 30) 26 36804 Canshaft (Use as required) 36 600697A Screw, 114-20 x 518* 37 3636 Resistor Spark Plug (R-JaC) 38 27896A Casset, Clinder cover 39 28423 Body Piston Pine Reather			Qty	
3 27642 Plug, Oil drain 4 32630 Seal, Oil 5 32783 Intake Valve (Std.) (Incl. 9) 5 32784 Intake Valve (Std.) (Incl. 9) 6 27878A Exhaust Valve (Std.) (Incl. 9) 6 27880A Exhaust Valve (Std.) (Incl. 9) 7 27882 Cap, Upper valve spring 7A 20810 Pin Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 8 27881 Spring, Valve 9 32581 Cap, Lover valve spring 9 32581 Cap, Lover valve spring 10A 32590 Plate, Lock & Oil disper (This plate may be replaced by 34242 oil disper but 650662C screw must be used.) 10 34242 Disper, Oil 11 32680A Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Used in early production) 13 27884 Gear, Crankshaft (Used in early production) 14 325949 Plate, Lock & Pin Assy, (101 'O' OS) (Incl. 16) 14 325949 Piston & Pin Assy, (101 'O' OS) (Incl. 16) 14 34519 Piston & Pin Assy, (101 'O' OS) (Incl. 16) 15 32595 Ring Set (Std.) (2-34" Bore) 16 32596 Ring Set (Gd.) (2-34" Bore) 17 32591 Piston & Ring Set (Gd.) (2-34" Bore) 18 32596 Ring Set (Gd.) (2-34" Bore) 19 32677 Ring Set (Gd.) (2-34" Bore) 21 32115 Cap Set (Gd.) (2-34" Bore) 22 34034 Lifter, Valve Cap Set (Gd.) (2-34" Bore) 23 31303B Cover, (Cap Cap Set (Gd.) (2-34" Bore) 24 24247 Set (Gd.) (2-34" Bore) 25 31297 Dipstock, Oil drain 26 31303B Cover, (Cap Cap Set (Gd.) (2-34" Bore) 27 32516 Cap Set (Gd.) (2-34" Bore) 28 31303B Cover, (Cap Cap Set (Gd.) (2-34" Bore) 29 32673 Ring Set (Gd.) (2-34" Bore) 29 31546 Bushing, Crankshaft (Use as required) 29 32673 Set (Gd.)				
4 32630 Seal, Oil 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 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. Upper valve spring 10 32590 Pale, 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 (Use as 19060CC screw must be used.) 11 327884 Crankshaft (Gar Pin (Early production) 12 27884 Crankshaft (Gar Pin (Early production) 13 27884 Crankshaft (Gar Pin (Early production) 14 32593B Piston & Pin Assy, (Std.)(2-34*)(Incl.16) 14 34517 Piston, Pin Assy, (Std.)(2-34*)(Incl.16) 14 34519 Piston & Pin Assy, (U010* OS) (Incl. 16) 14 34519 Piston & Pin Assy, (U020* OS) (Incl. 16) 15 32596 Ring Set (O10* OS) 15 32596 Ring Set (O10* OS) 16 32597 Ring Set (O10* OS) 17 32597 Ring Set (O10* OS) 18 66662C Screw Ring Set (O20* OS) 19 32678 Ring Set (O20* OS) 20 30969 Cap. Oil drain 21 31038 Cover. (John Cap.) 22 34034 Lifter, Valve 23 31038 Cover. (John Cap.) 24 2407 Seal. (John Cap.) 25 31297 Dipotick (Official Cap.) 26 30841 Screw, 14-20 x 16* 28* 27* 39* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30				
5 32783	3	27642		Plug, Oil drain
5 32784 Intake Valve (1/32" OS) (Incl. 9) 6 27878A Exhaust Valve (1/32" OS) (Incl. 9) 6 27880A Exhaust Valve (1/32" OS) (Incl. 9) 7 27882 Cap. Upper valve spring 7 A 20810 Pin. Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 9 32581 Cap. Upper valve spring 9 32581 Cap. Upper valve spring 10A 32590 Pale, Lock & Oil dipper (This plate may be replaced by 3/242 oil dipper but 690662C screw must be used.) 10 34242 Dipper, Oil 11 32680A Crankshaft (Gear Pin (Early production) 12 27884 Cap. Lower valve spring 13 27884 Crankshaft (Gear Pin (Early production) 14 32593B Crankshaft Gear Pin (Early production) 15 27884 Cap. Lower valve spring 16 27884 Crankshaft Gear Pin (Early production) 17 32593B Piston & Pin Assy. (010" OS) (Incl. 16) 18 343 32594B Piston & Pin Assy. (010" OS) (Incl. 16) 19 43 4517 Piston, Pin Assy. (010" OS) (Incl. 16) 19 43 4519 Piston & Pin Assy. (020" OS) (Incl. 16) 19 32596 Ring Set (010" OS) 15 32596 Ring Set (020" OS) 16 32597 Ring Set (020" OS) 16 32597 Ring Set (020" OS) 17 32591C Rod Assy., Connecting rod (2 each) 19 32578 Ring Set (020" OS) 19 32579 Ring Set (010" OS) 20 30969 Cap. (10 drain) 21 32115 Camshaft (MCR) 22 34034 Lifter, Valve Sulvey Sulvey Sulvey Sulvey 23 313038 Cover, Cylinder (Incl. 24, 106 & 279) 24 32427 Seal. Oil ordinal 25 31297 Dipotick, Oil (Incl. 30) Capster (Oil Capster) 26 3084 Screw, Lord order over Screw, 14-20 x 1-14" Screw, 16-22 x 18" Screw, 1	4	32630		Seal, Oil
5 32784 Intake Valve (1/32" OS) (Incl. 9) 6 27878A Exhaust Valve (1/32" OS) (Incl. 9) 6 27880A Exhaust Valve (1/32" OS) (Incl. 9) 7 27882 Cap. Upper valve spring 7 A 20810 Pin. Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 9 32581 Cap. Upper valve spring 9 32581 Cap. Upper valve spring 10A 32590 Pale, Lock & Oil dipper (This plate may be replaced by 3/242 oil dipper but 690662C screw must be used.) 10 34242 Dipper, Oil 11 32680A Crankshaft (Gear Pin (Early production) 12 27884 Cap. Lower valve spring 13 27884 Crankshaft (Gear Pin (Early production) 14 32593B Crankshaft Gear Pin (Early production) 15 27884 Cap. Lower valve spring 16 27884 Crankshaft Gear Pin (Early production) 17 32593B Piston & Pin Assy. (010" OS) (Incl. 16) 18 343 32594B Piston & Pin Assy. (010" OS) (Incl. 16) 19 43 4517 Piston, Pin Assy. (010" OS) (Incl. 16) 19 43 4519 Piston & Pin Assy. (020" OS) (Incl. 16) 19 32596 Ring Set (010" OS) 15 32596 Ring Set (020" OS) 16 32597 Ring Set (020" OS) 16 32597 Ring Set (020" OS) 17 32591C Rod Assy., Connecting rod (2 each) 19 32578 Ring Set (020" OS) 19 32579 Ring Set (010" OS) 20 30969 Cap. (10 drain) 21 32115 Camshaft (MCR) 22 34034 Lifter, Valve Sulvey Sulvey Sulvey Sulvey 23 313038 Cover, Cylinder (Incl. 24, 106 & 279) 24 32427 Seal. Oil ordinal 25 31297 Dipotick, Oil (Incl. 30) Capster (Oil Capster) 26 3084 Screw, Lord order over Screw, 14-20 x 1-14" Screw, 16-22 x 18" Screw, 1	5	32783		Intake Valve (Std.) (Incl. 9)
6 278780A Exhaust Valve (SIZ*) (old. 9) 7 27882 Exhaust Valve (SIZ*) (old. 9) 7 27882 Cap. Upper valve spring 7 20810 Pn. Valve spring retainer (Use as re quired) 8 27881 Spring, Valve 9 32581 Cap. Lover valve spring 9 32581 Cap. Lover valve spring 10 3242 Dipper, Oll 11 32680A Dipper, Oll 12 29783 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Use di nearly production) 13 27884 Cap. Lover valve spring 14 32593B Piston & Pin Assy. (1010* CS) (Incl. 16) 14 32593B Piston & Pin Assy. (1010* CS) (Incl. 16) 14 34518 Piston & Pin Assy. (1010* CS) (Incl. 16) 14 34518 Piston & Pin Assy. (1010* CS) (Incl. 16) 15 32596 Piston Pin & Ring Set (SIzt) (2-34" Bore) 15 32596 Ring Set (1020* CS) 16 27888 Ring. Piston Pin & Ring Set (1010* OS) 16 27888 Ring. Piston Pin & Ring Set (1010* OS) 16 27888 Ring. Piston Pin & Ring Set (1010* OS) 16 27888 Ring. Piston Pin & Ring Set (1010* OS) 16 27888 Ring. Piston Pin & Ring Set (1010* OS) 16 27889 Ring. Set (1010* OS) 17 32591C Rod Assy. Connecting (Incl. 10 & 18) 18 650662C Screw Connecting (Incl. 24, 106 & 279) 26 30694 Piston Pin Cankshaft (Use as required) 27 31303B Cover, Cylinder (Incl. 24, 106 & 279) 28 31303B Cover, Cylinder (Incl. 24, 106 & 279) 29 3038A Piston Pin Set (1010* OS) 20 3039A Piston Pin Set (1010* OS) 20 3039A Piston Pin Set (1010* OS) 20 3039A Piston Pin Set (1010* OS) 21 30251 Resistor Spark Plug (Ru Az) Resistor Spark Plug (Ru Az) Resistor Spark Plug (Ru Az) Sparker 20 3039A Piston Pin Set (1010* OS) 20 30 28423 Body Piston Pin Set (1010* OS) 20 30 28423 Body Piston Pin Set (1010* OS) 20 30 28423 Body Piston Pin Set (1010* OS) 20 30 28423 Body Piston Pin Set (1010* OS) 21 30 28423 Body Piston Pin Set (1010* OS) 22 30 28423 Body Piston Pin Set (1010* OS) 23 28423 Body Piston Pin Set (1010* OS) 24 25 25 25 25 25 25 25 25 25 25 25 25 25				
6 27880A 7 27882 7 27882 Cap. Upper valve spring 7 27882 Cap. Upper valve spring 8 27881 Spring, Valve 9 32581 Cap. Lower valve spring 9 32581 Cap. Lower valve spring 10 32590 Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but Esoféa2C screw must be used.) 10 34242 Dipper, Oil 11 32680A Crankshaft (Incl. 12 & 13) Crankshaft (Incl. 13 & 1				
7 27882 7 A 20810 8 27881 8 A 27881 8 A 27881 8 A 27881 9 A 32581 9 A 32581 9 A 32581 10 A 32581 10 A 32581 10 A 32590 11 A 32590 11 A 32590 11 A 32690 11 A 32690A 11 A 32690A 12 29783 12 29783 13 27884 14 A 32592B 14 Cap, Lower valve spring 12 29783 13 27884 14 Crankshaff (Incl. 12 & 13) 15 29783 16 Crankshaff (Incl. 12 & 13) 16 29783 17 Crankshaff (Incl. 12 & 13) 18 2598B 19 Crankshaff (Incl. 12 & 13) 19 29783 10 Crankshaff (Incl. 12 & 13) 10 34242 11 32680A 11 32680A 11 327884 11 32680B 11 327884 11 32593B 11 327884 11 32593B 1				
7A 20810 8 77881 9 77881 8 77881 9 77881 8 A 277881 9 A 32581 9 A 32581 9 A 32581 10 A 32590 10 Plate, Lock & Oil dipper (This plate may be replaced by 32424 oil dippe but be 505662C screw must be used.) 10 34242 11 336800A 12 29783 13 277884 14 325928 14 325928 15 277884 16 27888 17 27884 17 27884 18 25928 18 25928 18 25928 19 1ston & Pin & String Set (Std.)(2-3/4")(In ct. 16) 18 325938 19 18 25938 19 18 25938 19 18 25938 19 18 25938 19 18 25938 19 18 25938 19 18 25938 19 18 25938 10 2 29783 10 2 29783 11 2 29783 11 2 29783 11 2 29783 11 2 29783 12 29783 13 259838 14 3 325948 14 3 325948 15 14 3 325948 16 18 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18				, , ,
8 27881 Spring, Valve 8A 27881 Spring, Valve 9A 32581 Cap, Lower valve spring 9A 32581 Cap, Lower valve spring 10A 32590 Plate, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper but 650662C screw must be used.) 10 34242 Dipper, Oil 11 32690A Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft Gear Pin (Early production) 13 27884 Servicable onlywhen it is pinned to the crankshaft. 14A 32592B Plston & Pin Assy, (Coll (Ca47)*(Incl. 16) 14A 32593B Piston & Pin Assy, (Coll (Ca47)*(Incl. 16) 14A 32593B Piston & Pin Assy, (Coll (Ca47)*(Incl. 16) 14A 32593B Piston & Pin Assy, (Coll (Ca47)*(Incl. 16) 14A 34517 Piston, Pin & Ring Set (Coll (Ca) Cay (Incl. 16) 14 34518 Piston, Pin & Ring Set (Coll (Ca) Cay (Incl. 16) 15 32596 Ring Set (Std.) (2-34* Bore) 15 32596 Ring Set (Coll (Ca) Cay (Ca) (Incl. 16) 16 27888 Ring Set (Coll (Ca) Cay (Ca) (Ca) (Incl. 16) 17 32591C Rod Assy, Connecting (Incl. 10 & 18) 18 660662C Screw, Connecting (Incl. 10 & 18) 26778 Nipple, Oil drain 27 331303B Cover, Cylinder (Incl. 24, 106 & 279) 26 30684 Cover, Cylinder (Incl. 30) 2673 Piston, Pin Stor, Din Carabaft (Use as required) 26 30694 Cover, Cylinder (Incl. 30) 27 Gasket, Cylinder cover 28 36044 Pleach (Coll (Incl. 30) 28 3793 Cover, (14-20 x 518* 29 32631A Screw, 14-20 x 518* 20 30938A Head, Cylinder 20 30938A Screw, 14-20 x 518* 21 3251 Resistor Spark Plug (Use as required) 26 600695A Screw, 16-18 x 2-1/2" (Use as required) 27 3251 Resistor Spark Plug 28 30 28423 Body, Breather Cover 29 326816 Place of Cover (16-18 x 2-1/2" (Use as required) 20 30696 Screw, 16-18 x 2-1/2" (Use as required) 20 30697 Screw, 516-18 x 2-1/2" (Use as required) 20 306964 Screw, 16-18 x 2-1/2" (Use as required) 20 30697 Screw, 516-18 x 2-1/2" (Use as required) 20 30697 Screw, 516-18 x 2-1/2" (Use as required) 21 32115 Screw, 16-18 x 2-1/2" (Use as required) 22 32631A Screw, 516-18 x 2-1/2" (Use as required) 23 3636 Resistor Spark Plug 24 36 2606942 Screw, 16-18 x 2-1/2" (Use as required) 25 36064 Screw, 516-18 x 2-1/2" (Use as required) 26 30684 Scre				
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) This gear is servicable onlywhen it is pinned to the crankshaft. 14A 32592B Piston & Pin Assiy. (Sid.)(2-34*)(Incl. 16) Piston & Pin Assiy. (Sid.)(2-34*)(Incl. 16) Piston & Pin Assiy. (Jo2*) OS (Incl. 16) Piston, Pin & Ring Set (Sid.) (2-34* Bore) Piston, Pin & Ring Set (Jo1*) OS) Piston, Pin & Ring Ost (Jo2*) Ost (Jo2*) Ost (Jo2*) Ost				
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 Crankshaft (Incl. 12 & 13) 12 29783 Crankshaft (Incl. 12 & 13) 13 27884 Cear, Crankshaft (Incl. 12 & 13) Cranksh				
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 (Ind. 12 & 13) Crankshaft (Ind. 12 & 13) Crankshaft (Ind. 12 & 13) Crankshaft (Bear Pin (Early production) Gear, Crankshaft (Gear Pin (Early production) This gear is servicable onlywhen it is pinned to the crankshaft. 14A 32593B Piston & Pin Assy, (Std.)(2-344*)(In d.16) Piston & Pin Assy, (Col*) Cos) (Ind. 16) Piston & Pin Assy, (Col*) Cos) (Ind. 16) Piston & Pin Assy, (Col*) Cos) (Ind. 16) Piston, Pin & Ring Set (Std.) (2-34* Bore) Piston, Pin & Ring Set (Ol*) Cos) (Ind. 16) Piston, Pin & Ring Set (Ol*) Cos) Piston, Pin & Ring Piston Pin retaining Retained Piston, Pin Retained Pin Piston, Pin Retained Piston, Pin Retained Pin Piston,				
Plaie, Lock & Oil dipper (This plate may be replaced by 34242 oil dipper to the 650662C screw must be used.) 10 34242				• •
34242 idipper but 650662C screw must be used.) 10 34242				
10 34242 11 32680A 12 29783 13 27884 14 Gear Pin (Early production) 15 27884 16 Gear, Crankshaft (Bear Pin (Early production) 16 Gear, Crankshaft (Bear Pin (Early production) 17 Gear, Crankshaft (Used in early production) 18 27884 18 Piston & Pin Assy. (Std.)/2-3/4"(In cl. 16) 19 14 32593B 19 14 32593B 19 15 14 34517 19 15 14 34517 19 15 14 34518 19 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	10A	32590		Plate, Lock & Oil dipper (This plate may be replaced by
11 32680A 12 29783 13 27884 14 Crankshaft (Incl. 12 & 13) 15 27884 16 Crankshaft (Gear Pin (Early production) 16 Crankshaft (Used in early production) 17 Crankshaft (Used in early production) 18 Servicable onlywhen it is pinned to the crankshaft. 18 Piston & Pin Assy. (Std.)(2-3/4")(In cl.16) 18 Piston & Pin Assy. (Lotto 'Os) (Incl. 16) 18 Piston & Pin Assy. (Lotto' Os) (Incl. 16) 18 Piston & Pin Assy. (Lotto' Os) (Incl. 16) 19 Piston & Pin Assy. (Lotto' Os) (Incl. 16) 19 Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 19 Piston, Pin & Ring Set (Lotto' Os) 10 Piston, Pin & Ring Set (Lotto' Os) 10 Piston, Pin & Ring Set (Lotto' Os) 10 Piston, Pin & Ring Set (Lotto' Os) 11 Piston, Pin A Ring Set (Lotto' Os) 11 Piston, Pin A Ring Set (Lotto' Os) 11 Piston, Pin Ring Set (Lotto' Os) 12 Piston, Pin Assy. (Lotto' Os) 13 Piston,				34242 oil dipper but 650662C screw must be used.)
11 32680A 12 29783 13 27884 14 Crankshaft (Incl. 12 & 13) 15 27884 16 Crankshaft (Gear Pin (Early production) 16 Crankshaft (Used in early production) 17 Crankshaft (Used in early production) 18 Servicable onlywhen it is pinned to the crankshaft. 18 Piston & Pin Assy. (Std.)(2-3/4")(In cl.16) 18 Piston & Pin Assy. (Lotto 'Os) (Incl. 16) 18 Piston & Pin Assy. (Lotto' Os) (Incl. 16) 18 Piston & Pin Assy. (Lotto' Os) (Incl. 16) 19 Piston & Pin Assy. (Lotto' Os) (Incl. 16) 19 Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 19 Piston, Pin & Ring Set (Lotto' Os) 10 Piston, Pin & Ring Set (Lotto' Os) 10 Piston, Pin & Ring Set (Lotto' Os) 10 Piston, Pin & Ring Set (Lotto' Os) 11 Piston, Pin A Ring Set (Lotto' Os) 11 Piston, Pin A Ring Set (Lotto' Os) 11 Piston, Pin Ring Set (Lotto' Os) 12 Piston, Pin Assy. (Lotto' Os) 13 Piston,	10	24242		Dippor Oil
12 29783				• •
Gear, Crankshaft (Used in early production) This gear is servicable onlywhen it is pinned to the crankshaft. 14A 32592B 14A 32593B 14A 32594B 14A 32594B 14A 32594B 14B Piston & Pin Assiy, (Std.)(2-3/4")(Incl.16) 14B 34517 14B 34518 15B Piston & Pin Assiy, (L020" CS) (Incl. 16) 15B 34518 16B Piston & Pin Assiy, (L020" CS) (Incl. 16) 17B 34519 18B Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 18B 34519 18B Piston, Pin & Ring Set (L010" CS) 18B Piston, Pin & Ring Set (L020" CS) 18B Piston, Pin & Ring Set (L010" CS) 18B Piston, Pin & Ring Set (L010" CS) 18B Piston, Pin & Ring Set (L010" CS) 18B Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 18B Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 18B Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 18B Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 18B Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 18B Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 18B Piston, Pin & Ring Set (Std.) (2-3/4" Bore) 18B Piston, Pin & Ring Set (Std.) (2-3/4" (L020 A 18) 18B Piston, Pin & Ring Set (Std.) (2-3/4" (L020 A 18) 18B Piston, Pin & Ring Set (Std.) (L020 A 18) 18B Piston, Pin & Ring Set (Std.) (L020 A 18) 18B Piston, Pin & Ring Set (Std.) (L020 A 18) 18B Piston, Pin & Ring Set (Std.) (L020 A 18) 18B Piston, Pin & Ring Set (Std.) (L020 A 18) 18B Piston, Pin & Ring Set (Std.) (L020 A 18) 18B Piston, Pin & Ring Set (Std.) (L020 A 18) 18B				
servicable onlywhen it is pinned to the crankshaft. 14A 32592B 14A 32593B 14A 32593B 15ton & Pin Assy. (Std.)(2/34"/I) (cd.16) 14A 32594B 15ton & Pin Assy. (.010" OS) (Incl. 16) 14 34517 15ton, Pin & Ring Set (Std.) (2.34" Bore) 15ton, Pin & Ring Set (.010" OS) 14 34519 15 32595 16 32596 17 32596 18 Ring Set (Std.) (2-34" Bore) 18 32597 19 Ring Set (.010" OS) 19 32597 10 27888 11 32591C 12 Rod Assy., Connecting (Incl. 10 & 18) 18 650662C 19 32678 20 30969 21 32115 22 34034 23 31303B 20 Cover, Cylinder (Incl. 24, 106 & 279) 24B 31546 25 24427 26 30684 26 50488 27 5086 28 5079 29 5086 20 10 10 10 10 10 10 10 10 10 10 10 10 10				
14A 32592B 14A 32593B 14A 32593B 14A 32594B 14A 32594B 14A 32594B 14 34517 15 Piston & Pin Assy. (.010" OS) (Incl. 16) 16 Piston & Pin Assy. (.020" OS) (Incl. 16) 17 Piston, Pin & Ring Set (Std.) (2-34" Bore) 18 Piston, Pin & Ring Set (Std.) (2-34" Bore) 19 Piston, Pin & Ring Set (.010" OS) 18 Ad519 19 Piston, Pin & Ring Set (.010" OS) 19 Ad519 19 Piston, Pin & Ring Set (.010" OS) 15 32596 16 Ring Set (.010" OS) 17 32596 18 Ring Set (.020" OS) 18 Ad519 19 Ring Set (.020" OS) 19 Ad6 Assy., Connecting (Incl. 10 & 18) 10 Ad6 Assy., Connecting (Incl. 10 & 18) 11 Ad6 Assy., Connecting (Incl. 10 & 18) 12 Ad7 13 Ad7 14 Ad7 15 Ad7 16 Ad7 16 Ad7 17 Ad7 18 A	13	2/884		
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)
144 32594B 14 34517 Piston & Pin Assly. (J020" OS) (Incl. 16) 14 34518 Piston, Pin & Ring Set (J010" OS) 14 34519 Piston, Pin & Ring Set (J020" OS) 15 32595 Ring Set (J020" OS) 15 32596 Ring Set (J020" OS) 16 27888 Ring Set (J020" OS) 17 32591C Rod Assy, Connecting (Incl. 10 & 18) 18 650662C Screw, Connecting rod (2 each) 19 32678 Nipple, Oil drain 20 30969 Cap, Oil drain 21 32115 Camshaft (MCR) 22 34034 Lifter, Valve 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 24B 31546 Bushing, Crankshaft (Use as required) 24 28427 Seal, Oil 25 31297 Dipstick, Oil (Incl. 30) 26 30684 Screw, 1/4-20 x 1-1/4" 30 29673 Ring Set (XIA) 31 650489 Screw, 1/4-20 x 5/8" 32 32631A Read Screw, 1/4-20 x 5/8" 33 30938A Head, Cylinder head 34 27793 Cip, Conduit (Use as required) 36 650697A Screw, 5/16-18 x 2 1/14" (Use as required) 37 34251 Resistor Spark Plug 4 Gasket, Use Read 5 Gasket, Oil (Rol. 30) 5 Gasket, Diffiller 5 Crew, 5/16-18 x 2 1/14" (Use as required) 5 Crew, 5/16-18 x 2 1/14" (Use as required) 5 Crew, 5/16-18 x 2 1/14" (Use as required) 5 Crew, 5/16-18 x 2 1/14" (Use as required) 5 Crew, 5/16-18 x 2 1/14" (Use as required) 7 3636 Resistor Spark Plug 7 Gasket, Diffiller 8 Gasket, Diffiller 8 Gasket, Diffiller 8 Gasket, Diffiller 9 Gasket, Diffiller				
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 32596 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) 19 32678 Nipple, Oil drain 20 30969 Cap, Oil drain 21 32115 Camshaft (MCR) 23 31303B Cover, Cylinder (Incl. 24, 106 & 279) 24B 31546 Bushing, Crankshaft (Use as required) 24 28427 Seal, Oil 25 31297 Dipstick, Oil (Incl. 30) 26 30684 *Gasket, Cylinder cover 28 650488 Screw, 1/4-20 x 5/8" 30 29673 *Gasket, Oil filler 31 32631 Piston pin etaining 32 32631A Rod Assy, Connecting rod (2 each) 33 30938A Head, Oil 35 25942 Screw, 1/4-20 x 5/8" 36 650695A Screw, 5/16-18 x 2-1/2" (Use as required) 37 34251 Resistor Spark Plug 37 Gasket, Dylinder (Rod. 24, 24) 37 37 Gesistor, Oil (Rod. 30) 37 34251 Resistor Spark Plug 37 Gasket, Dylinder (Rod. 32) 37 Gesistor, Spark Plug 37 34251 Resistor Spark Plug 37 Gasket, Dyling (RJ-8C) 38 28423 Body, Breather				
14 34518 14 34519 15 32595 15 32596 16 32597 17 32591C 18 65062C 19 32678 20 30969 21 32115 22 34034 23 31303B 24 2427 25 31297 26 30684 26 360488 27 8938A 28 2631A 31 650489 31 25842 31 26848 31 26848 31 26848 31 26848 31 26848 31 26848 31 26848 31 26868 31 26868 31 26868 31 26868 31 26868 31 26868 31 26868 31 26868 32 26814 33 30938A 34 27793 36 650697A 36 650694A 37 34251 38 27896A 38 28842 3 1758 38 19500, Piston, Pin & Ring Set (,010" OS) Ring Set (,010" OS				
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Rof #	Part Number	Ot√	Description
	28425	Qty	Cover, Valve spring
	26073		Washer (Use as required)
	650691		Washer, Flat (Use as required)
	650690		Washer, Belleville (Use as required)
	650128		Screw, 10-24 x 1/2"
45	27915A		* Gasket, Intake
46	30195A		Flange, Carburetor (Incl. 79 & 80)
47	30196		Screw, 5/16-18 x 3/4"
48	29716		Screw, 1/4-28 x 7/16"
	650548		Screw, 8-32 x 5/16"
	32326A		Lever, Governor (New lever does not need 1 of
02	02020/1		51,66,132,164,165,207)
EE	20205		•
	30205		Bracket, Adjusting
	30824		Link, Throttle
	29216		Nut, Lock, 10-32
61	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		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)
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
.0	662667 (as required) (Point Ignition)
7/	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)
97	34131		Ground Wire
	29538		Base, Engine mounting
	32401		Muffler
	31845		Shaft, Mechanical governor
			· · · · · · · · · · · · · · · · · · ·
	30591		Gear Assy., Governor (Incl. 109)
	30588A		Spool, Governor
	30590A		Washer, Flat
	29193		Ring, Retaining
111C	34158		Bracket, Fuel tank
113	650561		Screw, 1/4-20 x 5/8"
114	34156A		Fuel Tank (Incl. 115 & 266) NOTE: These tanks were built
			with different size fuel inlet openings. Tanks with the 1-3/16"
			I.D. opening use fuel cap 33032 or 34210. Tanks with the
			1-1/2" I.D. opening use fuel cap 35355 or 35650.
4.4=	440444B		
115	410144B		Fuel Cap (White Plastic)(Std)(As requ ired)

Ref #	Part Number	Qty Description
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 required)
115	35355	Fuel Cap (Use as required)
	34159	Plate, Fuel tank mounting
	29774	Fuel Line (Braided 8-1/4" 21 cm)(Use as req.)
	30705	Fuel Line (Braided 16") (41 cm) (Use as req.)
	30962	Fuel Line (Braided 32") (81 cm) (Use as req.)
	650128	Screw, 10-24 x 1/2" (Use as required)
	30622A	Extension, Blower housing
	650542	Screw, 5/16-18 x 3/4"
	27930A	Gasket, Exhaust
	30196	Screw, 5/16-18 x 3/4"
	26073	Washer (Use as required)
	650694A	Screw, 5/16-18 x 2" (Use as required)
	32589	Key, Flywheel
	31843A	Bracket, Governor gear
	650836	Screw, 10-24 x 1/2"
	650493	Screw, 1/4-20 x 1-3/4"
	30747	Clip, Shorting
151	650665	Screw, 1/4-15 x 7/8"
	610118	Cover, Spark plug (Use as required)
	650561	Screw, 1/4-20 x 5/8" (Use as required)
209	30939A	Cover, Cylinder head
223	32180C	Line, Primer
225	34126	Bracket, Grommet mounting
226	650760	Screw, 8-32 x 3/8"
227	28545	Grommet
246	32125	Cup, Starter
	590417	Screen, Starter cup
	26460	Clamp, Fuel line
	31461	Bushing, Crankshaft (Use as required)
	33876	Gasket, Stator
	610973	Terminal Ass'y. (As req. on late prod uction)
	27275	Clip, Hi-tension wire (Use as require d)
	34246	Clip, Ground wire (Use as required)
	34346	Decal, Instruction
	34170	Decal, Instruction
	30547A	Contact Assy., Breaker
	30548B	Condenser
	631021	Inlet Needle, Seat & Clip Assy.
330	631920	Carburetor (Incl. 75) (Refer to Division 5, Section A, page 138 for breakdown)
337	610694A	Magneto (w/ring gear for 110 volt sta rter) NOTE: The complete magneto is not available as an assembly. The magneto number is shown for reference purposes only. Order component parts individually, as show in parts list. (Refer to Division 5, Section B, page 24 for breakdown)
338	590473	Rewind Starter (Refer to Division 5, Section C, page 29 for breakdown)
343	33239A	Gasket Set (Incl. items marked*)



	Part Number 650489	Qty	Description 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, 10-32 x 3/8 (Ose as required) Screw, 10-24 x 1/2"
	29716		Screw, 1/4-28 x 7/16"
	30824		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)
	33108A		Control Bracket (Incl. 224 & 274)
	32410		Knob, Speed control
	570629A		Primer Assy.
	32180C		Line, Primer
	30826		Spring, Extension
230	650257		Screw, 8-32 x 5/16"
231	34217		Cover, Carburetor
254	32398		Bracket, Choke
255	28820		Screw, 10-32 x 1/2"
256A	650765		Screw, 10-32 x 1/2"
256	650760		Screw, 8-32 x 3/8"
257	31291		Plug, Cover
263	650764		Nut, "U" Type (Use as required)
	610973		Terminal Ass'y. (As req. on late prod uction)
	34132		Plate, Choke indicator
	34127		Guard Starter
	32576		Seal, Snow guard
	34170		Decal, Instruction
	34416		Decal, Choke
	34144		Decal, Primer
	34414		Decal, Warning
	590473		Rewind Starter (Refer to Division 5, Section C, page 29 for
330	330473		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 with Solid State ignition)



Ref #	Part Number	Qty	Description
36 36 38 42 42 50 51	27513 650697A 650695A 650694A 27896A 26073 650691 650548 30319 32326A		Lockwasher, 1/4" (Use as required) Screw, 5/16-18 x 2-1/2" (Use as requi red) Screw, 5/16-18 x 2-1/4" (Use as requi red) Screw, 5/16-18 x 2" (Use as required) * Gasket, Breather cover Washer (Use as required) Washer, Flat (Use as required) Screw, 8-32 x 5/16" Rivet, Split (Used in early productio n) Lever, Governor (New lever does not need 1 of 51,66,132,164,165,207)
57 58 59 61 66	30205 730130 30196 29216 29826 29918 730561		Bracket, Adjusting Exh.Adap.Kit (Incl. 58 & 125) (Use as req.) Screw, 5/16-18 x 3/4" (Use as require d) Nut, Lock, 10-32 Screw, 10-32 x 3/4" Lockwasher, #8 E.T. Air cleaner kit (Incl. 38, 67A, 83, 84B, 85,89B, 89C, 90A, 91, 91A, 91B, 91C, 91D, 245 & 331B) (Use only on engines with an externally vented fully adjustable carburetor)
82	730127		Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89A, 90, 238 & 331B) (Use as required)
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.
113 118 118 118 125 126 128 132 148 148 202 203 204 226 227	391026 650561 29774 30705 30962 27930A 30196 650694A 650548 34067 34069 31288 650697A 6021A 650760 28545 26460		Opt. Spark Arrest Muffler (Incl.196,1 97,199) Screw, 1/4-20 x 5/8" Fuel Line (Braided 8-1/4" 21 cm)(Use as req.) Fuel Line (Braided 32") (81 cm) (Use as req.) Fuel Line (Braided 32") (81 cm) (Use as req.) Gasket, Exhaust Screw, 5/16-18 x 3/4" Screw, 5/16-18 x 2" (Use as required) Screw, 8-32 x 5/16" (Early production) Wire Assy., Alternator adapter (4-1/4") Wire Assy., Alternator adapter (6-3/4") Exh. Adaptor Kit (Incl.125,203,204) (As req.) Screw, 5/16-18 x 2-1/2" (Use as required) Screw, 5/16-18 x 1-1/2" (Use as required) Screw, 8-32 x 3/8" Grommet Clamp, Fuel line