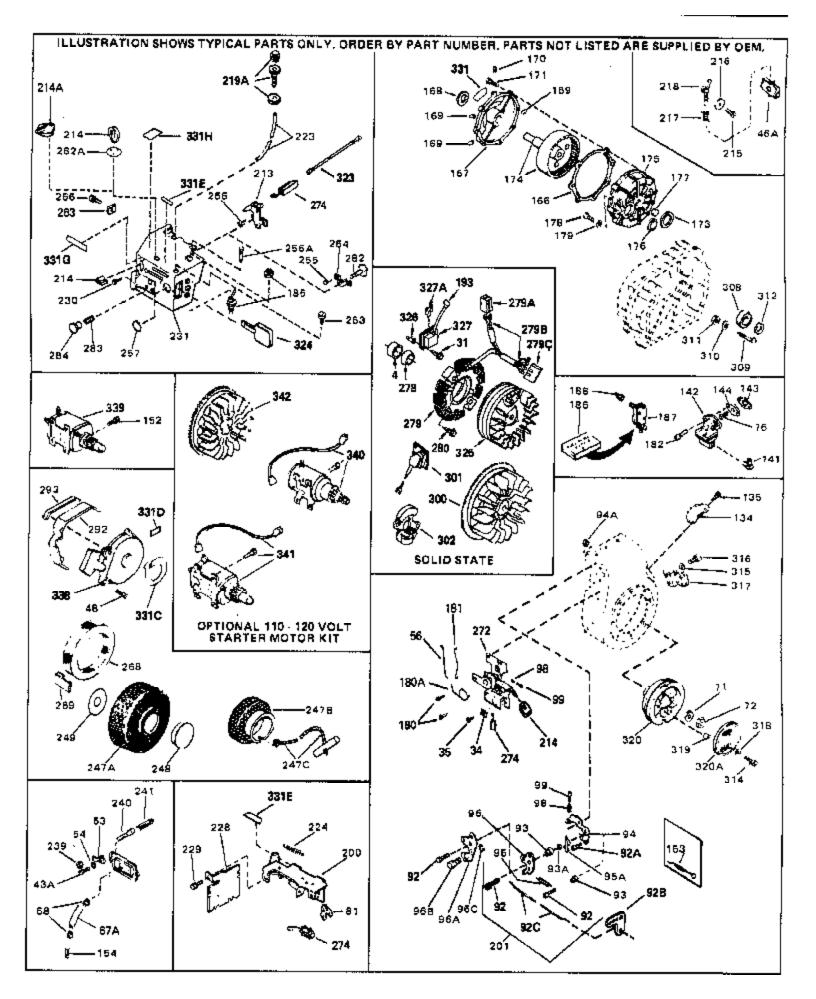


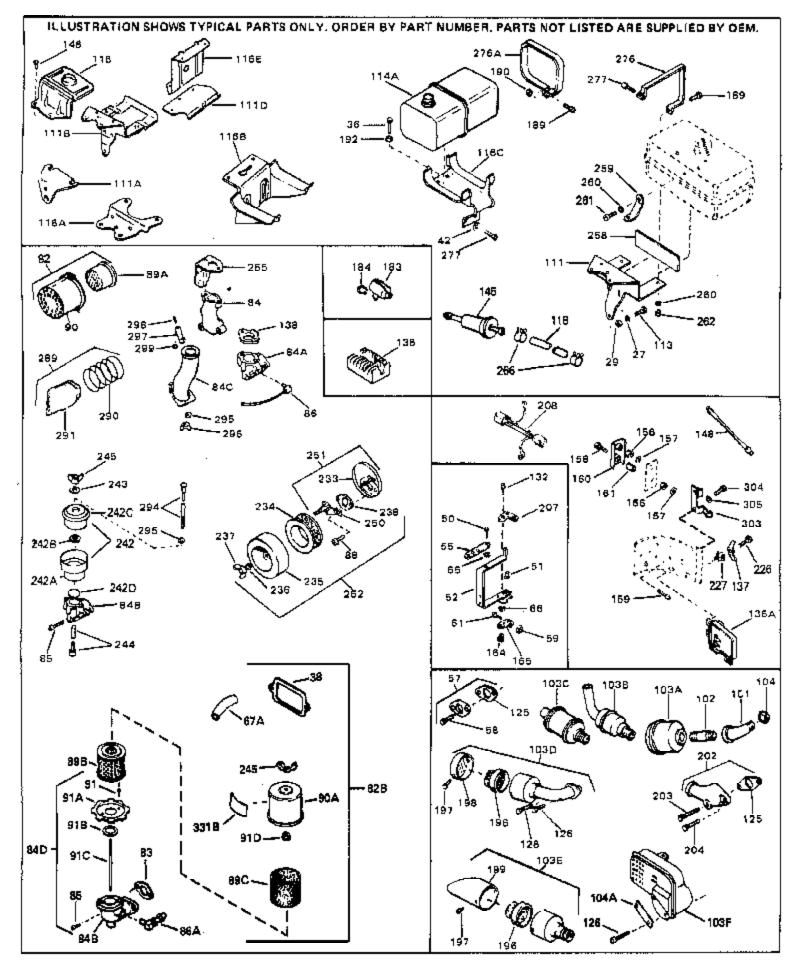
Ref #	Part Number	Qtv	Description
1			Cylinder (Incl. 2, 3, 4 & 76) (2-3/4" Bore)
-	27652		Pin, Dowel
	27642		Plug, Oil drain
	32630		Seal, Oil
	32783		
			Intake Valve (Std.) (Incl. 9)
	32784		Intake Valve (1/32" OS) (Incl. 9)
	27878A		Exhaust Valve (Std.) (Incl. 9)
	27880A		Exhaust Valve (1/32" OS) (Incl. 9)
	27882		Cap, Upper valve spring
	20810		Pin, Valve spring retainer (Use as re quired)
	27881		Spring, Valve
8	27881		Spring, Valve
9	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.)
	34242		Dipper, Oil
	32587		Crankshaft (Incl. 12 & 13)
	29783		Crankshaft Gear Pin (Early production)
13	27884		Gear, Crankshaft (Used in early production) This gear is
			servicable onlywhen it is pinned to the crankshaft.
1/1	32592B		Piston & Pin Ass'y. (Std.)(2-3/4")(In cl.16)
	32593B		
			Piston & Pin Ass'y. (.010" OS) (Incl. 16)
	32594B		Piston & Pin Ass'y. (.020" OS) (Incl. 16)
	34517		Piston, Pin & Ring Set (Std.) (2-3/4" Bore)
	34518		Piston, Pin & Ring Set (.010" OS)
	34519		Piston, Pin & Ring Set (.020" OS)
	32595		Ring Set (Std.) (2-3/4" Bore)
	32596		Ring Set (.010" OS)
	32597		Ring Set (.020" OS)
16	27888		Ring, Piston pin retaining
17	32591C		Rod Assy., Connecting (Incl. 10 & 18)
18	650662C		Screw, Connecting rod (2 each)
21	32115		Camshaft (MCR)
22	34034		Lifter, Valve
	31303B		Cover, Cylinder (Incl. 24, 106 & 279)
24	28427		Seal, Oil
	31546		Bushing, Crankshaft (Use as required)
	31297		Dipstick, Oil (Incl. 30)
	30684		* Gasket, Cylinder cover
	650488		Screw, 1/4-20 x 1-1/4"
	29673		* Gasket, Oil filler
	650489		Screw, 1/4-20 x 5/8"
	32631A		* Gasket, Cylinder head
	30938A		
			Head, Cylinder
	27793		Clip, Conduit (Use as required)
	28942		Screw, 10-32 x 3/8" (Use as required)
	650697A		Screw, 5/16-18 x 2-1/2" (Use as required)
	650695A		Screw, 5/16-18 x 2-1/4" (Use as required)
	650694A		Screw, 5/16-18 x 2" (Use as required)
	33636		Resistor Spark Plug (RJ-8C)
	34251		Resistor Spark Plug
	27896A		* Gasket, Breather cover
39	28423		Body, Breather
40	28424		Element, Breather
41	28425		Cover, Valve spring
	26073		Washer (Use as required)
			x I 177

		Qty Description
42	650691	Washer, Flat (Use as required)
42A	650690	Washer, Belleville (Use as required)
43	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)
	30205	Bracket, Adjusting
56	31710	Link, Throttle
59	29216	Nut, Lock, 10-32
60	650152	Screw, 8-32 x 3/8"
	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)
C 4	20700	Valco Covornar
	30700	Yoke, Governor
	650494	Screw, 6-40 x 5/16"
66	29918	Lockwasher, #8 E.T.
67	35350	Tube, Breather
69	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
15	53230A	
		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)
00	07070	* Cooket Air dooper
	27272A	* Gasket, Air cleaner
87	31691	Bracket, Air cleaner NOTE: 130010 thru 10C & 11 used in
		early production only.
00	28820	Serouv 10.22 v 1/2"
		Screw, 10-32 x 1/2"
	30727	Element, Air cleaner
	31715	Body, Air cleaner
97	35349	Ground Wire
100	29538	Base, Engine mounting
	32401	Muffler
	31845	Shaft, Mechanical governor
		•
	30591	Gear Assy., Governor (Incl. 109)
108	30588A	Spool, Governor
	30590A	Washer, Flat
109		
		Ring, Retaining
110	29193	Ring, Retaining Screw 1/4-20 x 5/8"
110 113	29193 650561	Screw, 1/4-20 x 5/8"
110 113 114	29193	

required) required) 115 35355 Fuel Cap (Use as required) 117A 33351 Valve, Fuel Strainer & shut-off (Ind 119) 118 29774 Fuel Line (Braided 16') (41 cm) (Use as req.) 118 30705 Fuel Line (Braided 32') (61 cm) (Use as req.) 118 3062 Fuel Line (Braided 32') (61 cm) (Use as req.) 121 30622 Fuel Line (Braided 32') (61 cm) (Use as req.) 121 30622 Fuel Line (Braided 32') (61 cm) (Use as req.) 121 30622 Screw, 5/16-18 x 3/4" 122 27930A Gasket, EXhaust 125 27930A Gasket, EXhaust 126 20073 Washer (Use as required) 128 650694A Screw, 5/16-18 x 3/4" 129 32589 Key, Flywheel 130 31843A Bracket, Governor gear 131 650433 Screw, 10-24 x 1/2" 132 65043 Screw, 14-20 x 5/8' (Use as required) 205 650561 Screw, 14-20 x 5/8' (Use as required) 206 650760 Screw			/ Description
required) The transmission of the second secon	115	33032	
117A 33351 Valve, Fuel istrainer & shurdoff (Incl 119) 118 30705 Fuel Line (Braided 8-1/4* 21 cm)(Use as req.) 118 30962 Fuel Line (Braided 32') (81 cm) (Use as req.) 119 3679 Bushing, Fuel Itting 120 650128 Screw, 10-24 x 1/2' (Use as req.) 121 30622 Extension, Blower housing 124 650542 Screw, 5/16-18 x 3/4'' 125 27930A Gasket, Exhaust 126 50094A Screw, 5/16-18 x 3/4'' 127 26073 Washer (Use as required) 128 650642 Screw, 5/16-18 x 3/4'' 127 26073 Washer (Use as required) 128 650694A Screw, 5/16-18 x 3/4'' 129 32589 Key, Flywheel 130 31843A Bracket, Governor gear 131 650493 Screw, 1/4-20 x 5/8'' (Use as required) 205 Screw, 1/4-20 x 5/8'' (Use as required) Screw, 5/22 x 1/2'' 206 Screw, N/4-20 x 5/8'' (Use as required) Screw, 5/24 x 1/2'' 207 205 Screw, N/4-20 x 5/8''' (Use as required) Screw, 1/4-20 x 5/8'	115	34210	Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)
117A 33351 Valve, Fuel istrainer & shurdoff (Incl 119) 118 30705 Fuel Line (Braided 8-1/4* 21 cm)(Use as req.) 118 30962 Fuel Line (Braided 32') (81 cm) (Use as req.) 119 3679 Bushing, Fuel Itting 120 650128 Screw, 10-24 x 1/2' (Use as req.) 121 30622 Extension, Blower housing 124 650542 Screw, 5/16-18 x 3/4'' 125 27930A Gasket, Exhaust 126 50094A Screw, 5/16-18 x 3/4'' 127 26073 Washer (Use as required) 128 650642 Screw, 5/16-18 x 3/4'' 127 26073 Washer (Use as required) 128 650694A Screw, 5/16-18 x 3/4'' 129 32589 Key, Flywheel 130 31843A Bracket, Governor gear 131 650493 Screw, 1/4-20 x 5/8'' (Use as required) 205 Screw, 1/4-20 x 5/8'' (Use as required) Screw, 5/22 x 1/2'' 206 Screw, N/4-20 x 5/8'' (Use as required) Screw, 5/24 x 1/2'' 207 205 Screw, N/4-20 x 5/8''' (Use as required) Screw, 1/4-20 x 5/8'	115	35355	Fuel Cap (Use as required)
118 29774 Fuel Line (Braided 6-1/4" 21 m)(Use as req.) 118 30705 Fuel Line (Braided 15") (41 cm) (Use as req.) 119 33679 Bushing, Fuel fitting 120 650128 Screw, 10-24 x 1/2" (Use as required) 121 30622 Extension, Blower housing 124 650542 Screw, 5/16-18 x 34" 126 20733 Washer (Use as required) 128 650694A Screw, 5/16-18 x 34" 129 32589 Key, Flywheel 130 Screw, 5/16-18 x 2" (Use as required) 128 650694A Screw, 10-24 x 1/2" 138 650483 Screw, 10-24 x 1/2" 138 650483 Screw, 10-24 x 1/2" 133 650493 Screw, 1/4-20 x 5/3" (Use as required) 226 650760 Screw, 1/4-20 x 1-3/4" 149 30747 Clip, Shorting 226 650760 Screw, 8-32 x 3/8" 227 28545			
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118 3062 Fuel Line (Braided 327) [61 cm) (Use as req.) 119 33679 Bushing, Fuel fitting 120 650128 Screw, 10-24 x 1/2" (Use as required) 121 30622A Extension, Blower housing 124 650542 Screw, 5/16-18 x 3/4" 125 27930A Gasket, Exhaust 126 30196 Screw, 5/16-18 x 2' (Use as required) 128 650694A Screw, 5/16-18 x 2' (Use as required) 129 32569 Key, Flywheel 130 31843A Bracket, Governor gear 131 650366 Screw, 10-24 x 1/2" 133 650493 Screw, 10-24 x 1/2" 133 650493 Screw, 10-24 x 1/2" 133 650493 Screw, 10-24 x 1/2" 134 650561 Screw, 10-24 x 1/2" 135 650561 Screw, 10-24 x 1/2" 149 30747 Clip, Storting 205 650760 Screw, 10-24 x 1/2" 226 650760 Screw, 10-24 x 1/2" 227 25545 Cup, Starter 247 32125 Cup, Start			
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131 650836 Screw, 10-24 x 1/2 ^e 133 650493 Screw, 10-24 x 1/2 ^e 149 30747 Clip, Shorting 205 650661 Screw, 14-20 x 5/8 ^e (Use as required) 209 30939A Cover, Cylinder head 226 650760 Screw, 14-20 x 5/8 ^e (Use as required) 226 650760 Screw, 8-32 x 3/8 ^e 227 28545 Grommet 246 32125 Cup, Starter 247 590417 Screen, Starter cup 266 26460 Clamp, Fuel line 277 31461 Bushing, Crankshaft (Use as required) 277 31461 Bushing, Crankshaft (Use as required) 2775 Clip, Hi-tension wire (Use as required) 287 37223 Decal, Air cleaner 331 50223 Decal, Name 3314 34346 Decal, Name 332 30547A Contact Assy., Breaker 333 0548B Condenser 334 631021 Inlet Needle, Seat & Clip Assy. 336 Gal453 Carburetor (Incl. 75) (Refer to Divisio			
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 333 30548B 334 631021 336 631453 337 610689A 338 590420 338 590420 Condenser Inlet Needle, Seat & Clip Assy. Carburetor (Incl. 75) (Refer to Division 5, Section A, page 10 for breakdown) Magneto NOTE: The complete magneto is not available as an assembly. The magneto number is shown for reference purposes only. Order component parts individually, as show in parts list. (Refer to Division 5, Section B, page 24 for breakdown) 338 590420 Rewind Starter (Refer to Division 5, Section C, page 25 for breakdown) 			
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breakdown)	337	610689A	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
343 33239A Gasket Set (Incl. items marked*)	338	590420	
	343	33239A	Gasket Set (Incl. items marked*)



		/ 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)
	650597	Screw, 10-24 x 5/8"
	29716	Screw, 1/4-28 x 7/16"
	32328	Bracket, Speed adjusting (Incl. 239)
	8269	Washer, Lock (Can be purchased locall y)
	31710	Link, Throttle
	650815	Washer, Belleville
	8116	Nut, Hex
	610118	Cover, Spark plug (Use as required)
	33450	Nut, Lock
	30845A	Bolt, Governor adjusting
	30886A	Spring, Governor bolt
	650764	Nut, "U" Type (Use as required)
	610973	Terminal Ass'y. (As req. on late prod uction)
	550223	Decal, Name
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)



		/ Description
27	27513	Lockwasher, 1/4" (Use as required)
36	650697A	Screw, 5/16-18 x 2-1/2" (Use as required)
36	650695A	Screw, 5/16-18 x 2-1/4" (Use as required)
	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, $8-32 \times 5/16''$
	30319	Rivet, Split (Used in early productio n)
52	32326A	Lever, Governor (New lever does not need 1 of
		51,66,132,164,165,207)
	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"
	29918	Lockwasher, #8 E.T.
	730127	Air Cleaner Ass'y. (Incl. 60, 83, 87, 88, 89A, 90, 238 &
02	100121	331B) (Use as required)
005	700504	
82B	730561	Air cleaner kit (Incl. 38, 67A, 83, 84B, 85,89B, 89C, 90A, 91,
		91A, 91B, 91C, 91D, 245 & 331B) (Use only on engines with
		an externally vented fully adjustable carburetor)
83	27272A	* Gasket, Air cleaner
	34819	Air Cleaner Elbow (Incl. 84B, 86A, 91, 91A, 91B & 91C) (Use
0.2		in 730561 assembly only)
00	20020	
	28820	Screw, 10-32 x 1/2"
	31715	Body, Air cleaner
	391026	Opt. Spark Arrest Muffler (Incl.196,1 97,199)
	33353	Bracket, Lower fuel tank
	650561	Screw, 1/4-20 x 5/8"
116	33352A	Plate, Upper fuel tank mounting
118	29774	Fuel Line (Braided 8-1/4" 21 cm)(Use as req.)
118	30705	Fuel Line (Braided 16") (41 cm) (Use as req.)
118	30962	Fuel Line (Braided 32") (81 cm) (Use as req.)
	27930A	Gasket, Exhaust
	30196	Screw, 5/16-18 x 3/4"
	650694A	Screw, 5/16-18 x 2" (Use as required)
	650548	Screw, $8-32 \times 5/16$ " (Early production)
	650139	
		Screw, 8-32 x 1/2"
	33356	
	792020	Screw, 1/4-20 x 2-1/4"
	34067	Wire Assy., Alternator adapter (4-1/4 ")
	34069	Wire Assy., Alternator adapter (6-3/4 ")
	31288	Exh. Adaptor Kit (Incl.125,203,204) (As req.)
	650697A	Screw, 5/16-18 x 2-1/2" (Use as requi red)
204	6021A	Screw, 5/16-18 x 1-1/2" (Use as required)
	31725A	Extension, Governor lever
	650760	Screw, 8-32 x 3/8"
	28545	Grommet
	26460	Clamp, Fuel line
	31752	Decal, Air cleaner
55 ID		