

Ref#	Part Number Qt	/ Description
1	34348B	Cylinder (Incl.2,20,72,72A) (3-1/8" B ore)
2	27652	Pin, Dowel
15	30699C	Rod Assy., Governor (Incl. 15A & 15B)
15A	30700	Yoke, Governor
15B	650494	Screw, 6-40 x 5/16"
16	33454	Governor Lever Assy.
17	29916	Clamp, Governor lever
	650548	Screw, 8-32 x 5/16"
	33578	Spring, Governor
	32630	Seal, Oil
	35256A	Baffle, Blower housing
	650561	Screw, 1/4-20 x 5/8"
	33720B	Crankshaft (Incl. 108 & 109)
	33628	Washer, Thrust
	29826	Screw, 10-32 x 3/4"
	29918	Lockwasher, # 8 E.T.
	30322	Locknut, Hex "Keps", 8-32
	29216	Nut & Lockwasher, 10-32 "Keps"
	29642	Ring, Retaining
	34552	Piston, Pin & Ring Set (Std.) (3-1/8")
	34553	Piston, Pin & Ring Set (3.010" OS)
	34554	Piston, Pin & Ring Set (.020" OS)
	34329A	Piston & Pin Ass'y.(Std)(Incl.43)(3-1 /8")
	34330A	Piston & Pin Ass'y. (.010" OS)(Incl. 43)
	34331A	Piston & Pin Ass'y. (.020" OS)(Incl. 43)
	34332	• ' ' '
	34333	Ring Set (Std.) (3-1/8" Bore)
		Ring Set (.010" OS)
	34334	Ring Set (.020" OS)
	27888	Ring, Piston pin retaining
	32591C	Rod Assy., Connecting (Incl. 49)
	650662C	Bolt, Connecting rod (2 pieces)
	34034	Lifter, Valve
	34242	Dipper, Oil
	34143	Camshaft (MCR)
	33273A	Extension, Blower housing
	650128	Screw, 10-24 x 1/2"
	35262	* Gasket, Cylinder cover
	33626B	Cyl. Cover (Incl.71,74,75,80,175,176, 311,312)
	27642	Plug, Oil drain
	33625	Seal, Oil
	31845	Shaft, Mechanical governor
	30590A	Washer, Flat
	30591	Gear Assy., Governor (Incl. 81)
	30588A	Spool, Governor
	29193	Ring, Retaining
	650833	Screw, 1/4-20 x 1-3/16"
	650832	Screw, 1/4-20 x 1-11/16"
	32589	Key, Flywheel
	650815	Washer, Belleville
	8116	Nut, Hex (1/2-20)
	610118	Cover, Spark plug (Use as required)
	650489	Screw, 1/4-20 x 5/8"
	29783	Pin, Crankshaft gear
	33245	Gear, Crankshaft
	34041A	* Gasket, Head
	34030A	Head, Cylinder
	27878A	Exhaust Valve (Std.) (Incl. 151)
125	27880A	Exhaust Valve (1/32" OS) (Incl. 151)

Ref #	Part Number Q	
126	34035	Intake Valve (Std.) (Incl. 151)
126	34036	Intake Valve (1/32" OS) (Incl. 151)
127A	26073	Washer, Flat (Use as required)
127A	650570	Washer, Flat (Use as required)
127	650691	Washer (Use as req., but not w/6021A screw)
	650690	Washer, Belleville
	650727	Screw, 5/16-18 x 1-3/4" (Use as requi red)
	650694A	Screw, 5/16-18 x 2" (Use as required)
	6021A	Screw, 5/16-18 x 1-1/2" (Use as required, but do notuse with
100/ (352.71	650691 washer)
		,
	650802	Screw, 1/4-20 x 5/8" (Use as required)
	650737	Screw, 1/4-20 x 1/2" (Use as required)
	650738	Screw, 1/4-20 x 5/8" (Use as required)
	650713	Screw, 5/16-18 x 5/8" (Use as require d)
131A	792028	Screw, 5/16-18 x 7/8" (Use as require d)
135	33636	Resistor Spark Plug (RJ17LM)
139	33369	Bracket, Governor gear
140	650836	Screw, 10-24 x 1/2"
149	27882	Cap, Upper valve spring
149A	27882	Cap, Upper valve spring
150	27881	Spring, Valve
	32581	Cap, Lower valve spring
	27896A	* Gasket, Breather cover
	28423	Body, Breather
	28424	Element, Breather
	28425	Cover, Valve spring
	35350	Tube, Breather
	650128	Screw, 10-24 x 1/2"
	650597	Screw, 10-24 x 5/8"
	29752	Nut & Lockwasher, 1/4-28
	30593	Clip, Primer line (Use as required)
	30088A	Screw, 1/4-28 x 1"
	33263	* Gasket, Carburetor
	33877	·
	32924	Pipe, Intake
		Spring, Compression
	650688	Screw, 10-32 x 1"
	610973	Terminal Assy. (Use as required)
	27793	Clip, Conduit
	28942	Screw, 10-32 x 3/8"
	650378	Screw, Torx T-30, 5/16-18 x 1-1/8 "
	27915A	* Gasket, Intake pipe
	33375D	Blower Housing (For electric starter)
	650788	Screw, 5/16-18 x 3/4" (Use as require d)
	29747B	Screw, 5/16-24 x 21/32"
	33272B	Cover, Cylinder head
	33280A	Muffler
	35824	Muffler (Optional quiet muffler)
	31588	Plate, Muffler locking
	650729	Screw, 5/16-18 x 3-3/16"
	650696	Screw, 5/16-18x2-3/4" (Used with 276A)
	33013	Cover, Starter bubble
	650760	Screw, 8-32 x 3/8"
	33662	Hub & Screen Assy., Starter
287	29752	Nut & Lockwasher, 1/4-28
290	29774	Fuel Line (Braided 8-1/4")(21 cm)(As req.)
	30705	Fuel Line (Braided 16")(41 cm)(Use as req.)
	30962	Fuel Line (Braided 32")(81 cm)(Use as req.)
		X

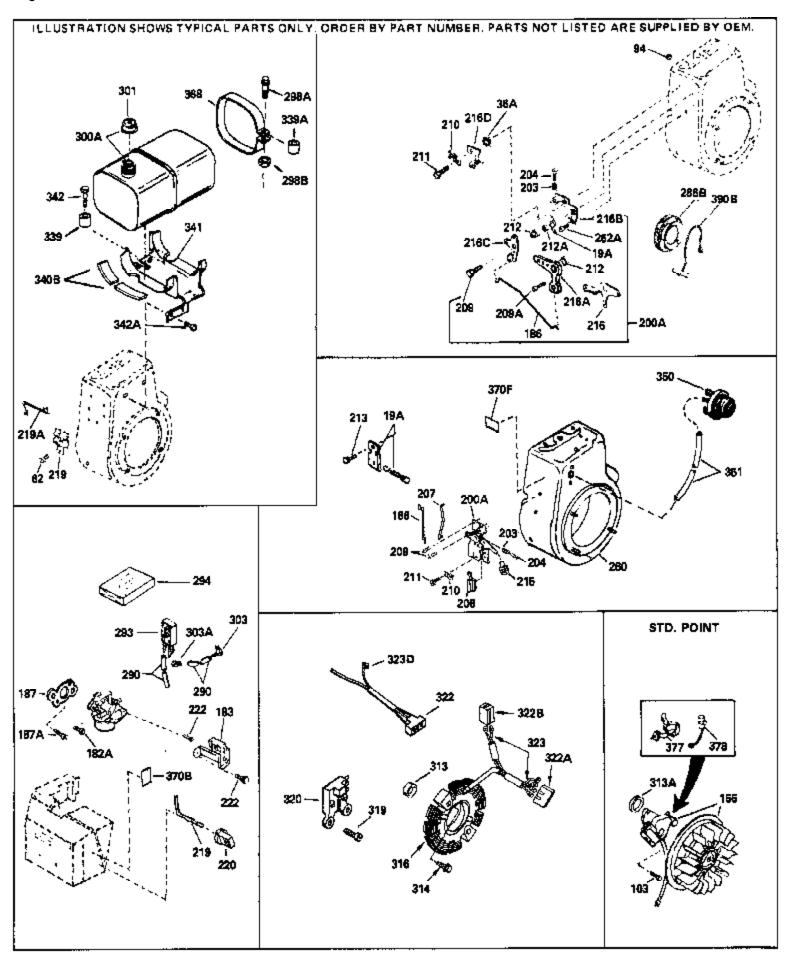
Def #	Dout Ni well ou	. Description
		ty Description
	26460	Clamp, Fuel line (Use as required)
	650665	Screw, 1/4-15 x 7/8"
300	34156A	Fuel Tank (Incl. 292 & 301) NOTE: These tanks were
		builtwith different size fuel inlet openings. Tanks with the
		1-3/16" I.D. opening use fuel cap 34210. Tanks with the
		1-1/2" I.D. opening use fuel cap 35355.
301	410144B	Fuel Cap (White Plastic)(Std)(1-1/2" I.D.)
	33032	Fuel Cap (Red Plastic) (Spurt Resistant, Low Profile) (1-3/16"
301	33032	1 \ / \ / \
		I.D.)
301	34210	Fuel Cap (Red Plastic) (Spurt Resistant, High Profile)
		(1-3/16" I.D)
201	35355	Fuel Cap (Red plastic) (1-1/2" I.D.)
	33893A	Tube, Oil fill
	33590	"O" Ring
	34011A	Dipstick (Incl. 306)
	29443	Clip, Fuel line (Use as required)
325	34246	Clip, Ground wire (Use as required)
340	34154	Plate, Fuel tank mounting
341	34155	Bracket, Fuel tank mounting
342	650561	Screw, 1/4-20 x 5/8"
	34870	Decal, Instruction Can be used on HM80 with diecast starter.
	34346	Decal, Instruction
	550223	Decal, Name
	631021	Inlet Needle, Seat & Clip Assy.
	631979	
300	031979	Carburetor (Incl. 184) (Refer to Division 5, Section A, page
		150 for breakdown or Fiche18A-1, Grid E-7)
390	590479	Rewind Starter (Refer to Division 5, Section C, page 30 for
		breakdown or Fiche 18A-1, Grid G-5)
400	33279G	Gasket Set (Incl. items marked*)
	35570	Screen Seal (Can be used on HM80 with stamped steel
100	5557.5	recoil starter)
		,
409	35569	Spacer (Can be used on HM80 with stamped steel recoil
		starter)
410	730573	Debris Screen Kit (Incl. 360, 370B, 387, 411 &413) (Can be
		used on HM80 with stamped steel recoil starter)
444	05500	·
411	35568	Debris Screen (Can be used on HM80 with stamped steel
		recoil starter)
413	650907	Screw, 5/16-18 x 1-5/8" (Can be used on HM80 with
		stamped steel recoil starter)
100	70005	,
	730225	SAE 30, 4-Cycle Engine Oil (Quart)
	730226	SAE 5W30, 4-Cycle Engine Oil (Quart)
425	730572	Starter Muff Kit (Incl. 370J, 426 & 427) (Can be used on
		HM80 with die cast starter)
120	650868	Screw, 8-18 x 1-1/8" (3 Required) (Use as required) (Refer to
423	00000	Mechanics Handbook for installation instructions).
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430	611077	Alternator, Add on (Use as required) (Refer to Mechanics
		Handbook for installation instructions).
404	F00000	•
431	590609	Centering tube (Use with engines equipped with die cast
		aluminum starter)(Use as required) (Refer to Mechanics
		Handbook for installation instructions)

Ref #	Part Number	Qty	Description
431	590610		Centering tube (Use as required) (Refer to Mechanics Handbook for installation instructions).
432	611078		A.C. Lighting Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).
432	611079		D.C. Charging Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).
433	590611		Alternator Shaft (4.00") (Use with engines equipped with cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions).
433	590636		Alternator Shaft (Use with engines equipped with stamped steel starter)(Use as required) (Refer to Mechanics Handbook for installation instructions).



	5 (1)	
		Description
	33627	Bearing, Ball
	33628	Washer, Thrust
	31855	Retainer, Bearing
97		Lockwasher, Heavy split, #10 (Buy loc ally)
	650802	Screw, 1/4-20 x 5/8" (Use as required)
	650737	Screw, 1/4-20 x 1/2" (Use as required)
	650738	Screw, 1/4-20 x 5/8" (Use as required)
	650890	Washer, Lock, 5/16"
	30747	Clip, Spark plug shorting
174	650128	Screw, 10-24 x 1/2"
174	650597	Screw, 10-24 x 5/8"
175	650778	Lockwasher
176	650580	Nut, Lock, 10-24
227	730127	Air Cleaner Ass'y. (Incl.238,239,240,241,243,245 & 370)
		(Use as required)
007	700404	` '
221	730164	Air Cleaner Ass'y. (Incl. 238, 239, 240, 241, 243 & 245) (Use
		as required)
228A	650824	Stud, 1/4-20 x 7.33 (Use as required)
	650851	Stud, 1/4-20 x 8.1 (Use as required) (Used with drilled thru
		elbow)
		,
	27272A	* Gasket, Air cleaner
	27272A	* Gasket, Air cleaner
	33266	Bracket, Air cleaner
	33267	Bracket, Air cleaner
	28820	Screw, 10-32 x 1/2"
	34700	Element, Air cleaner
245	33268	Element, Air cleaner
250B	33269A	Cover, Air cleaner
251	650513	Nut, Wing, 1/2-20
274	35865	Gasket, Exhaust (Use as required)
275C	35824	Muffler (Optional quiet muffler)
275B	391026	Muffler (Incl. 284, 284A & 416A) (This spark arresting muffler
		can be used on any model.)
277∧	650696	Screw, 5/16-18x2-3/4" (Used with 276A)
	650729	Screw, 5/16-18 x 3-3/16"
	26460	·
		Clamp, Fuel line (Use as required)
	650665	Screw, 1/4-15 x 7/8"
	35857	Valve, Fuel shut-off
	34870	Decal, Instruction Can be used on HM80 with diecast starter.
370B	34387	Decal, Instruction Can be used on HM80 with stamped steel
		recoil starter.
395	33329D	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. Refer to service number
		stamped on end cap of motor, or on decal for identification.
		Ref
400	05570	
408	35570	Screen Seal (Can be used on HM80 with stamped steel
		recoil starter)
409	35569	Spacer (Can be used on HM80 with stamped steel recoil
		starter)
⊿ 1∩	730573	Debris Screen Kit (Incl. 360, 370B, 387, 411 &413) (Can be
410	100010	used on HM80 with stamped steel recoil starter)
		adda on i iivido wiin dianiped dieci reddii diantei)

Ref #	Part Number	Qty Description
411	35568	Debris Screen (Can be used on HM80 with stamped steel recoil starter)
413	650907	Screw, 5/16-18 x 1-5/8" (Can be used on HM80 with stamped steel recoil starter)
415	730130	Exh.Adapter Kit (Incl.274,277)(Use as req.)
425	730572	Starter Muff Kit (Incl. 370J, 426 & 427) (Can be used on HM80 with die cast starter)
429	650868	Screw, 8-18 \times 1-1/8" (3 Required) (Use as required) (Refer to Mechanics Handbook for installation instructions).
430	611077	Alternator, Add on (Use as required) (Refer to Mechanics Handbook for installation instructions).
431	590609	Centering tube (Use with engines equipped with die cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions)
431	590610	Centering tube (Use as required) (Refer to Mechanics Handbook for installation instructions).
432	611078	A.C. Lighting Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).
432	611079	D.C. Charging Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).
433	590611	Alternator Shaft (4.00") (Use with engines equipped with cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions).
433	590636	Alternator Shaft (Use with engines equipped with stamped steel starter)(Use as required) (Refer to Mechanics Handbook for installation instructions).



Ref #	Part Number Qty	Description
103	650489 610842	Screw, 1/4-20 x 5/8" Magneto (Incl. 377 & 378) NOTE: The complete magneto is not available as an assembly. The magneto number is shown for reference purposes only. Order component parts individually, as shown in parts list. (Refer to Division 5, Section B, page 28 for breakdown or Fiche 18A-1, Grid G-1)
	33372 730152	Link, Governor lever-to-bellcrank Control Bracket (Incl. 19, 19A, 209A, 212, 212A, 216A, 216B, 216C & 262A)
204 206 207 209A 210 211 212A 212 216C 216B 216A 260 262A 275C 277A 286B 290 290 290	32924 650688 610973 33878 30312 27793 28942 28562 29530 30201A 30199A 30712 33375D 650399 35824 650696 33662 29774 30705 30962 410144B 33032	Spring, Compression Screw, 10-32 x 1" Terminal Assy. (Use as required) Link, Governor-to-throttle Screw, 10-32 x 1/2" Clip, Conduit Screw, 10-32 x 3/8" Bushing, RM. adjusting lever Bushing, Bellcrank lever Lever, Speed control Bracket, Speed adjusting (Incl.100 & 324) Lever, Bellcrank Blower Housing (For electric starter) Screw, 10-32 x 5/8" Muffler (Optional quiet muffler) Screw, 5/16-18x2-3/4" (Used with 276A) Hub & Screen Assy., Starter Fuel Line (Braided 8-1/4")(21 cm)(As req.) Fuel Line (Braided 32")(81 cm)(Use as req.) Fuel Cap (White Plastic) (Spurt Resistant, Low Profile) (1-3/16" I.D.)
301	34210	Fuel Cap (Red Plastic) (Spurt Resistant, High Profile) (1-3/16" I.D)
313A 339 341 342	35355 33876 35038 34155 650561 34387	Fuel Cap (Red plastic) (1-1/2" I.D.) Gasket, Stator Spacer, Tank Bracket, Fuel tank mounting Screw, 1/4-20 x 5/8" Decal, Instruction Can be used on HM80 with stamped steel recoil starter.
377 378	34870 30547A 30548B 35570	Decal, Instruction Can be used on HM80 with diecast starter. Contact Assy., Breaker Condenser Screen Seal (Can be used on HM80 with stamped steel recoil starter)
409	35569	Spacer (Can be used on HM80 with stamped steel recoil starter)
410	730573	Debris Screen Kit (Incl. 360, 370B, 387, 411 &413) (Can be used on HM80 with stamped steel recoil starter)
411	35568	Debris Screen (Can be used on HM80 with stamped steel recoil starter)

Ref #	Part Number	Qty Description
413	650907	Screw, 5/16-18 x 1-5/8" (Can be used on HM80 with stamped steel recoil starter)
425	730572	Starter Muff Kit (Incl. 370J, 426 & 427) (Can be used on HM80 with die cast starter)
429	650868	Screw, 8-18 \times 1-1/8" (3 Required) (Use as required) (Refer to Mechanics Handbook for installation instructions).
430	611077	Alternator, Add on (Use as required) (Refer to Mechanics Handbook for installation instructions).
431	590609	Centering tube (Use with engines equipped with die cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions)
431	590610	Centering tube (Use as required) (Refer to Mechanics Handbook for installation instructions).
432	611078	A.C. Lighting Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).
432	611079	D.C. Charging Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).
433	590611	Alternator Shaft (4.00") (Use with engines equipped with cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions).
433	590636	Alternator Shaft (Use with engines equipped with stamped steel starter)(Use as required) (Refer to Mechanics Handbook for installation instructions).