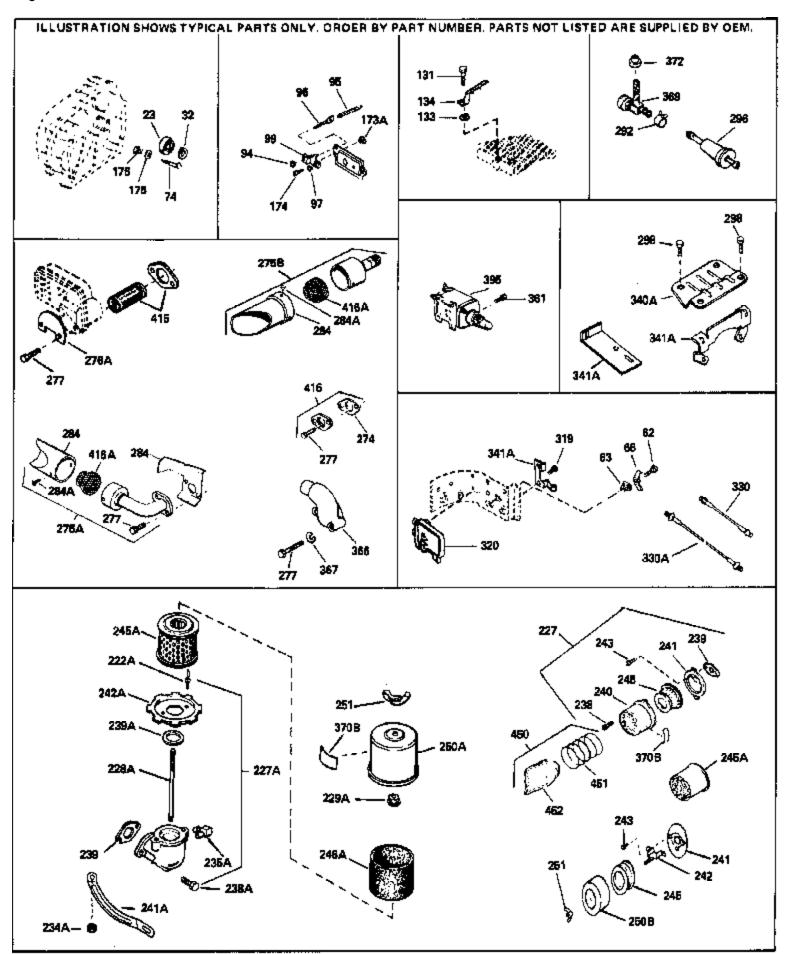


1 34348B 2 Cylinder (Incl. 220,72,72A) (3-1/8' B ore) Pn, Dowel 2 27652 Pn, Dowel 153 00690C Rod Assy., Governor (Incl. 15A & 15B) Yoke, Governor (Incl. 15A) Yoke, Governor (Incl. 15A & 15B) Yoke, Governor (Incl. 15A & 15B) Yoke, Governor (Incl. 15A) Yoke, Y	Ref #	Part Number C	ty Description
2 27552 Pri, Dowel 15 30698C 15 30700 Yoke, Governor 158 650494 Screw, 6-40 x \$'16' 16 33454 Governor Lever Assy. 17 29916 Clamp, Governor Lever Assy. 18 650549 Screw, 8-32 x \$'16' 20 32630 Seal, Oil 25 35256A Baffle, Blower housing 26 650561 Screw, 11-20 x 58' 30 33453A Crankshaft (Incl. 108 & 109) 35 29826 Screw, 10-32 x 34' 36 29918 Lockwasher, # 8 E.T. 37 A 30322 Lockmut, Fw 15, Tx 37 29216 Nut & Lockwasher, # 8 E.T. 38 29642 Ring, Retaining 40 34552 Piston, Pin & Ring Set (Orl' O'S) 40 34553 Piston, Pin & Ring Set (Orl' O'S) 41 34330A Piston, Pin & Ring Set (100' O'S) 41 34330A Piston & Pin Assy, (1010' OS)(Incl. 43) 41 34331A Piston & Pin Assy, (1010' OS)(Incl. 43) 42 34333 Ring Set (Stul) (3-18' Piore) 43 3788 Ring Set (100' O'S) 43 3788 Ring Set (100' O'S) 44 34344 Ring Set (00'O'S) 45 3788 Ring Set (00'O'S) 46 34542 Piston, Pin & Ring Set (20'O'S) 47 65066C Bolt. 48 34034 Piston & Pin Assy, (1010' OS)(Incl. 43) 49 34242 Pipton 40 34554 Piston, Pin Rasy, (1010' OS)(Incl. 43) 40 34555 Piston, Pin Rasy, (1010' OS)(Incl. 43) 41 34331A Piston & Pin Assy, (1010' OS)(Incl. 43) 42 34333 Ring Set (Stul) (3-18' Piore) 43 3788 Ring Set (Orl' O'S) 49 34242 Pipton 47 65066C Bolt. Connecting Incl. 49) 47 65066C Bolt. Connecting Incl. 49) 48 34242 Pipton 49 34242 Pipton 50 34143 Carnshaft (MCR) 51 32562 Gasket, Cylinder Cover (Incl. 71, 75, 80, 311 & 312) 51 3186 Short Ring Retaining 52 27642 Pilug, Oil drain 53 30588 Pilug, Piston Ring 54 50500 Seal, Oil 55 31960 Seal, Oil 56 30504 Shaft, Mechanical governor Washer, Flat 57 31960 Seal, Oil 58 30504 Shaft, Mechanical governor (Incl. 81) 59 36603 Screw, 14-20 x 1-316' 50 36603 Screw, 14-20 x 1-316' 50 36603 Screw, 14-20 x 1-316' 50 3660489 Screw, 14-20 x 58' 50 100 32645 George (Incl. 71, 75, 80, 311 & 312) 51 3161 Nut, Hex (172-20) 51 3161 Pin Crankshaft 51 40 32653 Screw, 14-20 x 1-316' 51 51 51 33616 Screw, 14-20 x 58' 51 51 51 33616 Screw, 14-20 x 58' 51 51 51 51 51 51 51 51 51 51 51 51 51 5			
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15A 30700 15B 650494 16 33454 17 29916 18 650548 20 30530 25 35256A 20 30530 25 35256A 26 650561 27 334534 28 50700, 474-20 x 58" 29 30 33453A 28 650561 29 50700, 474-20 x 58" 29 30 33453A 20 30322 31 33453A 31 30322 31 30322 31 30322 31 30322 31 30322 32 30545 32 305462 33 33453A 34 30526 35 29918 36 29918 37A 30322 37 28216 38 29642 39 31 32562 40 34553 40 34553 40 34554 41 343330A 41 34331A 41 34330A 41 34331A 41 34331A 41 34331A 41 34331A 41 34331A 41 34331A 41 34332 42 34333 42 34333 43 27888 45 32591C 47 650662C 48 34034 49 34242 50 34143 50 3273A 50 50081 5			
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18 650548 Screw, 8-32 x 5/16" 20 32630 Seal, Oil 25 35256A Baffle, Blower housing 26 650561 Screw, 14-20 x 58" 30 33453A Crankshaft (incl. 108 & 109) 32 28526 Screw, 10-52 x 34" 32 28526 Screw, 10-52 x 34" 37 30322 Locknut, Hex "Keps", 8-32 37 29216 Nut & Lockwasher, # 8 E.T. 38 29642 Ring, Retaining 40 34552 Piston, Pin & Ring Set (Std.) (3-1/8") 40 34553 Piston, Pin & Ring Set (1010" OS) 41 34330A Piston & Pin Assy, (Std)(Incl. 43)(3-1/8") 41 34330A Piston & Pin Assy, (Std)(Incl. 43)(3-1/8") 41 34331A Piston & Pin Assy, (1010" OS)(Incl. 43) 42 34332 Ring Set (Std.) (3-1/8") 43 3434 Piston & Pin Assy, (1020" OS)(Incl. 43) 42 34334 Ring Set (1010" OS) 43 37888 Ring, Piston pin retaining 45 32981C Rod Assy, Connecting (Incl. 49) 46 33273A Lifter, Valve 47 650662C Bolt, Connecting rod (2 pieces) 48 34034 Lifter, Valve 50 34143 Canshaft (IMCR) 50 3273A Extension, Blower housing 62 650760 Screw, 8-32 x 3/8" 63 28545 Grommet, Plastic 65 650128 Screw, 10-24 x 1/2" 69 35282 Grommet, Plastic 66 65083 Screw, 10-24 x 1/2" 67 33867B Oylinder Cover (Incl. 71, 75, 80, 311 & 312) 83 30588A Spool, Governor 84 29193 Ring, Retaining 86 650833 Screw, 14-20 x 1-1/16" 87 650832 Key, Flywheel 89 42589 Key, Flywheel 80 42589 Key, Flywheel 80 42589 Key, Flywheel 80 42589 Screw, 14-20 x 1-1/16" 80 42589 Screw, 14-20			
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Ref #	Part Number	Qty	Description
120	34030A	•	Head, Cylinder
125	27878A		Exhaust Valve (Std.) (Incl. 151)
	27880A		Exhaust Valve (1/32" OS) (Incl. 151)
	34035		Intake Valve (Std.) (Incl. 151)
	34036		Intake Valve (1/32" OS) (Incl. 151)
	650691		
			Washer (Use as req., but not w/6021A screw)
	26073		Washer, Flat (Use as required)
	650570		Washer, Flat (Use as required)
	650690		Washer, Belleville
	650727		Screw, 5/16-18 x 1-3/4" (Use as requi red)
130	650694A		Screw, 5/16-18 x 2" (Use as required)
130A	6021A		Screw, 5/16-18 x 1-1/2" (Use as required, but do notuse with
			650691 washer)
	650802		Screw, 1/4-20 x 5/8" (Use as required)
131	650737		Screw, 1/4-20 x 1/2" (Use as required)
131	650738		Screw, 1/4-20 x 5/8" (Use as required)
131A	650713		Screw, 5/16-18 x 5/8" (Use as require d)
	792028		Screw, 5/16-18 x 7/8" (Use as require d)
	33636		Resistor Spark Plug (RJ17LM)
	33369		Bracket, Governor gear
	650836		Screw, 10-24 x 1/2"
	35862		Seal Assy., Intake valve
	27882		Cap, Upper valve spring
	27881		Spring, Valve
	32581		Cap, Lower valve spring
	27896A		* Gasket, Breather cover
170	28423		Body, Breather
171	28424		Element, Breather
172	28425		Cover, Valve spring
173	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
	34707		Pipe, Intake
	610973		Terminal Assy. (Use as required)
	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)
262	29747B		Screw, 5/16-24 x 21/32"
265	33272B		Cover, Cylinder head
275	33280A		Muffler
	35824		Muffler (Optional quiet muffler)
	650696		Screw, 5/16-18x2-3/4" (Used with 276A)
	650729		Screw, 5/16-18 x 3-3/16"
	33662		Hub & Screen Assy., Starter
	29752		Nut & Lockwasher, 1/4-28
			·
	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.)
	26460		Clamp, Fuel line (Use as required)
298	650665		Screw, 1/4-15 x 7/8"

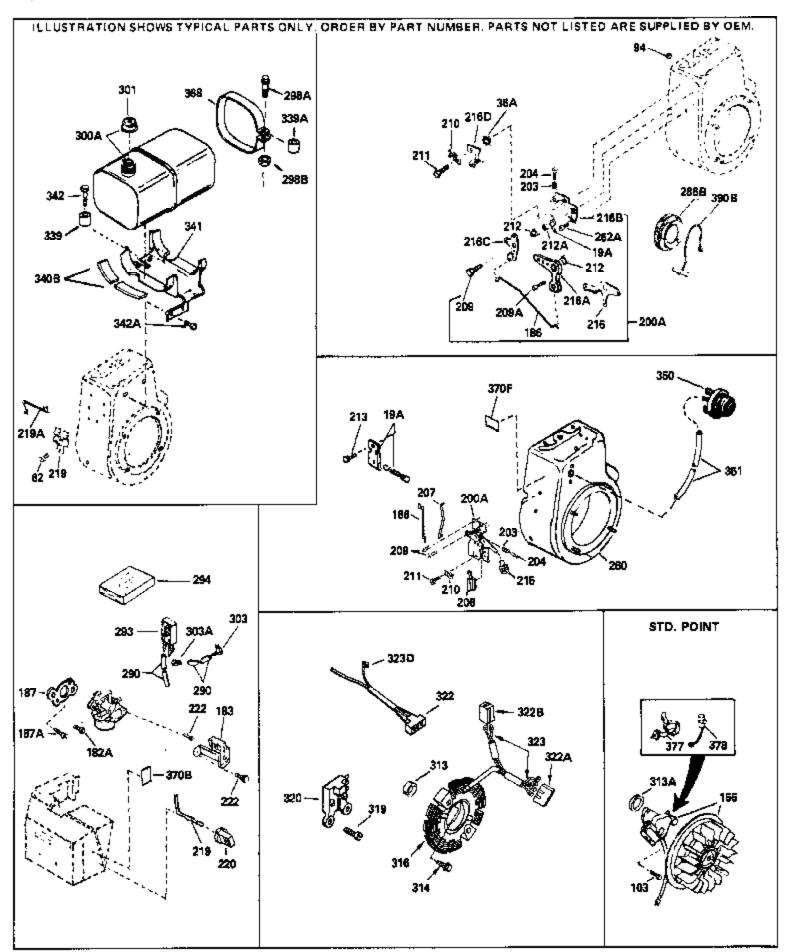
D.(#	DetAlember	01	Description
	Part Number	Qty	Description
300	34156A		Fuel Tank (Incl. 292 & 301) NOTE: These tanks were builtwith different size fuel inlet openings. Tanks with the 1-3/16" I.D. opening use fuel cap 34210. Tanks with the 1-1/2" I.D. opening use fuel cap 35355.
	410144B 33032		Fuel Cap (White Plastic)(Std)(1-1/2" I.D.) Fuel Cap (Red 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)
305 306 310 311 312 325 325 340 341 342 370J 379	35355 33951A 33590 34122A 27625 29673 29443 34246 34154 34155 650561 34870 631725 632008		Fuel Cap (Red plastic) (1-1/2" I.D.) Tube, Oil fill "O" Ring Dipstick (Incl. 306) Oil Fill Plug (Incl. 312) * Gasket, Oil fill plug Clip, Fuel line (Use as required) Clip, Ground wire (Use as required) Plate, Fuel tank mounting Bracket, Fuel tank mounting Bracket, Fuel tank mounting Screw, 1/4-20 x 5/8" Decal, Instruction Can be used on HM80 with diecast starter. Inlet Needle, Seat & Clip Assy. 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)
	33279G 35570		Gasket Set (Incl. items marked*) 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)
413	650907		Screw, 5/16-18 x 1-5/8" (Can be used on HM80 with stamped steel recoil starter)
421	730225 730226		SAE 30, 4-Cycle Engine Oil (Quart) 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)
429	650868		Screw, 8-18 x 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).

Ref #	Part Number	Qty	Description
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).



Def #	Dard Nilliands and	Description
		Description
	650760	Screw, 8-32 x 3/8"
	28545	Grommet, Plastic
	33356	Terminal, Ground
74	31855	Retainer, Bearing
94	33450	Nut Lock, 10-32
95	30886A	Spring, Extension
96	30845A	Bolt, Governor spring adjusting
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
	650128	Screw, 10-24 x 1/2"
	650597	Screw, 10-24 x 5/8"
227	730127	Air Cleaner Ass'y. (Incl.238,239,240,241,243,245 & 370)
		(Use as required)
227	720164	Air Classer Assly (Incl. 220, 220, 240, 244, 242, 9, 245) (Llas
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
220/1	000001	elbow)
		GIDOW)
239	27272A	* Gasket, Air cleaner
239	27272A	* Gasket, Air cleaner
	33266	Bracket, Air cleaner
	33267	Bracket, Air cleaner
	28820	Screw, 10-32 x 1/2"
	33268	
		Element, Air cleaner
	34700	Element, Air cleaner
	33269A	Cover, Air cleaner
	650513	Nut, Wing, 1/2-20
	35865	Gasket, Exhaust (Use as required)
275B	391026	Muffler (Incl. 284, 284A & 416A) (This spark arresting muffler
		can be used on any model.)
07EC	25024	Muffler (Optional quiet muffler)
	35824	Muffler (Optional quiet muffler)
	34479A	Spark Arrester Kit (Incl. 277A) (Also as an optional part)
	650729	Screw, 5/16-18 x 3-3/16"
	650696	Screw, 5/16-18x2-3/4" (Used with 276A)
	26460	Clamp, Fuel line (Use as required)
298	650665	Screw, 1/4-15 x 7/8"
361	30063	Screw, Torx T-30, 1/4-20 x 1/2"
	34870	Decal, Instruction Can be used on HM80 with diecast starter.
	34387	Decal, Instruction Can be used on HM80 with stamped steel
0102	0.1007	recoil starter.
395	35763A	Electric Starter Motor (12 Volt) (Refer to service number
		stamped on end cap of motor, or on decal for identification.
		Refer to Division 5, Section D, Page 20 for breakdown or
		Fiche 18A-1, Grids G-9, G-10 or G-11)
-	20222B	,
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
		 -

Ref #	Part Number	Qty	Description
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)
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)
413	650907		Screw, 5/16-18 x 1-5/8" (Can be used on HM80 with stamped steel recoil starter)
	730130 730572		Exh.Adapter Kit (Incl.274,277)(Use as req.) Starter Muff Kit (Incl. 370J, 426 & 427) (Can be used on HM80 with die cast starter)
429	650868		Screw, 8-18 x 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).



	ef # Part Number 62 650760 94 33450 103 650489 156 610848	-	Description Screw, 8-32 x 3/8" Nut Lock, 10-32 Screw, 1/4-20 x 5/8" 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 shown in parts list. (Refer to Division 5, Section B, page 28 for breakdown or Fiche 18A-1, Grid G
27 27 28	206 610973 207 33878 260 33375D 75C 35824 77A 650696 36B 33662 290 29774 290 30705 290 30962 293 33715 294 33010 301 410144B 301 33032		Terminal Assy. (Use as required) Link, Governor-to-throttle Blower Housing (For electric starter) 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 16")(41 cm)(Use as req.) Fuel Line (Braided 32")(81 cm)(Use as req.) Fuel pump, Impulse Repair Kit, Fuel pump Fuel Cap (White Plastic)(Std)(1-1/2" I.D.) Fuel Cap (Red 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)
31	301 35355 303 33713 13A 33876 339 35038 341 34155 342 650561 70B 34387		Fuel Cap (Red plastic) (1-1/2" I.D.) Fitting, Elbow 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.
;	70J 34870 377 30547A 378 30548B 408 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)
•	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 x 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).

Ref #	Part Number	Qty Description
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).