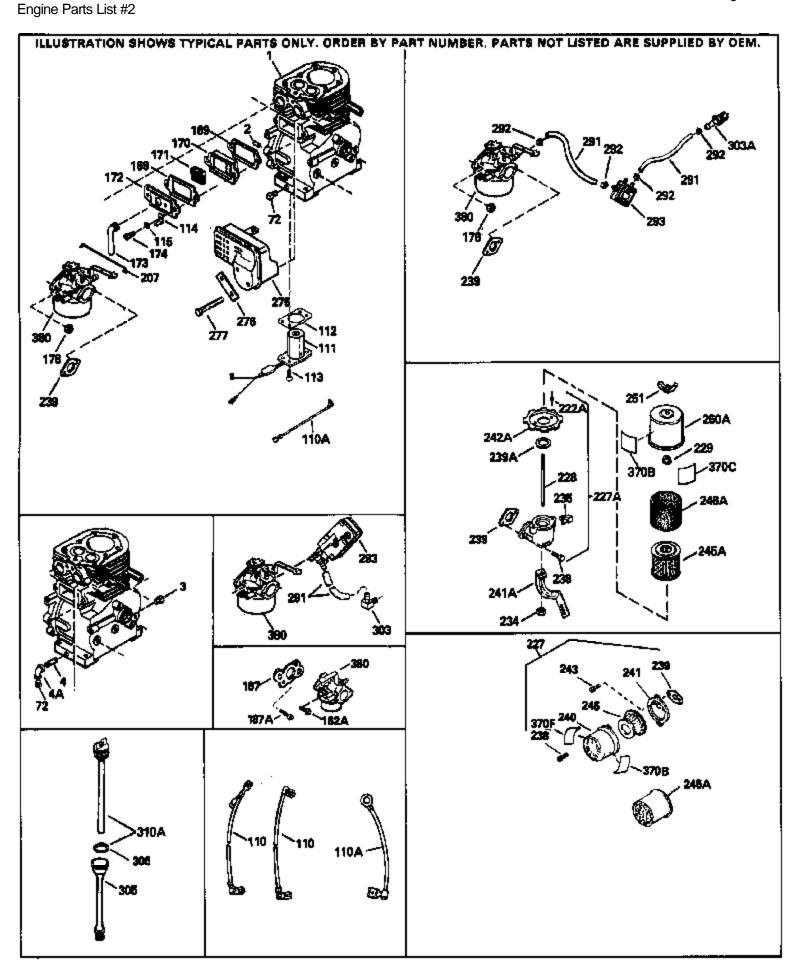


	Part Number	Qty	Description	
	34348B		Cylinder (Incl.2,20,72,72A) (3-1/8" B ore)	
	27652		Pin, Dowel	
	650494		Screw, 6-40 x 5/16"	
	30699C		Rod Assy., Governor (Incl. 15A & 15B)	
	30700		Yoke, Governor	
	33454		Governor Lever Assy.	
	29916 650548		Clamp, Governor lever	
	650548 32630		Screw, 8-32 x 5/16"	
	35256A		Seal, Oil	
	650561		Baffle, Blower housing Screw, 1/4-20 x 5/8"	
	35255		Crankshaft (Incl. 108 & 109)	
	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 (.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)(lncl. 43)	
41	34331A		Piston & Pin Ass'y. (.020" OS)(Incl. 43)	
	34332		Ring Set (Std.) (3-1/8" Bore)	
	34333		Ring Set (.010" OS)	
	34334		Ring Set (.020" OS)	
	27888		Ring, Piston pin retaining	
	32591C		Rod Assy., Connecting (Incl. 49)	
	35373A		Rod Assy., Connecting (Incl. 49)	
	650908		Bolt, Connecting rod	
	650882		Bolt, Connecting rod	
	650662C		Bolt, Connecting rod (2 pieces)	
	34034		Lifter, Valve	
	34242		Dipper, Oil	
	34143		Camshaft (MCR)	
	33273A 650138		Extension, Blower housing	
	650128 35363		Screw, 10-24 x 1/2" * Cooket Cylinder cover	
	35262 33367B		* Gasket, Cylinder cover	
	33367B 33368		Cylinder Cover (Incl. 71, 75, 80, 311 & 312)	
	27642		Bushing, Crankshaft Plug, Oil drain	
	31950		Seal, Oil	
	31845		Shaft, Mechanical governor	
	30590A		Washer, Flat	
	30591		Gear Assy., Governor (Incl. 81)	
	35378		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	
	611090		Flywheel	
	650815		Washer, Belleville	
	650880		Washer, Belleville	
	650881		Nut, Hex (5/8-18) (Add-on alternator)	
93	8116		Nut, Hex (1/2-20)	
	33450		Nut Lock, 10-32	
95	30886A		Spring, Extension	
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Ref # Part Number	Qty	Description
96 30845A		Bolt, Governor spring adjusting
97		Lockwasher, Heavy split, #10 (Buy loc ally)
100 35135		Lamination Assy., Solid State
101 610118		Cover, Spark plug (Use as required)
102 650872		Stud, Lamination mounting
103 650814		Screw, Torx T-15, 10-24 x 1"
119 34041A		* Gasket, Head
120 34030A		Head, Cylinder
125 27878A		Exhaust Valve (Std.) (Incl. 151)
125 27880A		Exhaust Valve (1/32" OS) (Incl. 151)
126 34035		Intake Valve (Std.) (Incl. 151)
126 34036		Intake Valve (1/32" OS) (Incl. 151)
127 650691		Washer (Use as req., but not w/6021A screw)
127 030091 127A 26073		Washer, Flat (Use as required)
127A 20073 127A 650570		Washer, Flat (Use as required)
128 650690 130 650737		Washer, Belleville
129 650727		Screw, 5/16-18 x 1-3/4" (Use as required)
130A 6021A		Screw, 5/16-18 x 1-1/2" (Use as required, but do notuse with
		650691 washer)
130 650694A		Screw, 5/16-18 x 2" (Use as required)
131A 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 35862		Seal Assy., Intake valve
150 27881		Spring, Valve
150 27661		•
169 27896A		Cap, Lower valve spring * Caplet Breather sover
		* Gasket, Breather cover
170 28423		Body, Breather
171 28424		Element, Breather
172 28425		Cover, Valve spring
173 35350		Tube, Breather
174 650597		Screw, 10-24 x 5/8"
174 650128		Screw, 10-24 x 1/2"
178 29752		Nut & Lockwasher, 1/4-28
179B 30593		Clip, Primer line (Use as required)
182 30088A		Screw, 1/4-28 x 1"
184 33263		* Gasket, Carburetor
185 34707		Pipe, Intake
206 610973		Terminal Assy. (Use as required)
207 33878		Link, Governor-to-throttle
223 650378		Screw, Torx T-30, 5/16-18 x 1-1/8 "
224 27915A		* Gasket, Intake pipe
228A 650824		Stud, 1/4-20 x 7.33 (Use as required)
228A 650851		Stud, 1/4-20 x 8.1 (Use as required) (Used with drilled thru
		elbow)
242 33267		Bracket, Air cleaner
250B 33269A		Cover, Air cleaner
260 33375D		
		Blower Housing (For electric starter)
261 650788 262 20747B		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
275B 391026		Muffler (Incl. 284, 284A & 416A) (This spark arresting muffler
		can be used on any model.)

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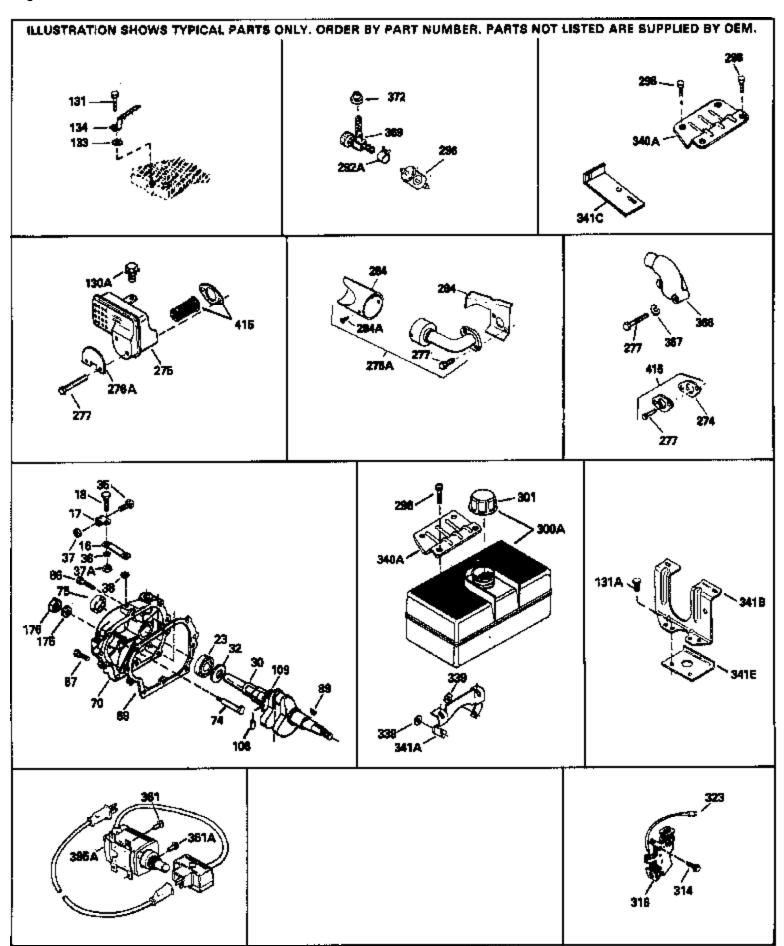
275 276 277 281 282 285 287 290 290 290 292 298 300	Part Number 33280A 31588 650729 33013 650760 32125 29752 29774 30705 30962 26460 650665 34156A	Qty	Description Muffler Plate, Muffler locking Screw, 5/16-18 x 3-3/16" Cover, Starter bubble Screw, 8-32 x 3/8" Cup, Starter Nut & Lockwasher, 1/4-28 Fuel 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.) Clamp, Fuel line (Use as required) Screw, 1/4-15 x 7/8" 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 310A 325 325 327 340 341 342 370A	35355 35554 29673 35499 36205 35941 29443 34246 35392 34154 34155 650561 34686 34387		Fuel Cap (Red plastic) (1-1/2" I.D.) Tube, Oil fill * Gasket, Oil fill "O" Ring Dipstick Dipstick (Incl. 306) Clip, Fuel line (Use as required) Clip, Ground wire (Use as required) Plug, Starter Plate, Fuel tank mounting Bracket, Fuel tank mounting Screw, 1/4-20 x 5/8" Decal, Name Decal, Instruction Can be used on HM80 with stamped steel recoil starter.
370J 379	34346 34870 631021 632351		Decal, Instruction 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 188 for breakdown or Fiche18A-1, Grid F-5)
390A	590633		Rewind Starter (Refer to Division 5, Section C, page 30 for breakdown or Fiche 18A-1, Grid G-5)
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
420	33279G 730225 730226		Gasket Set (Incl. items marked*) SAE 30, 4-Cycle Engine Oil (Quart) SAE 5W30, 4-Cycle Engine Oil (Quart)



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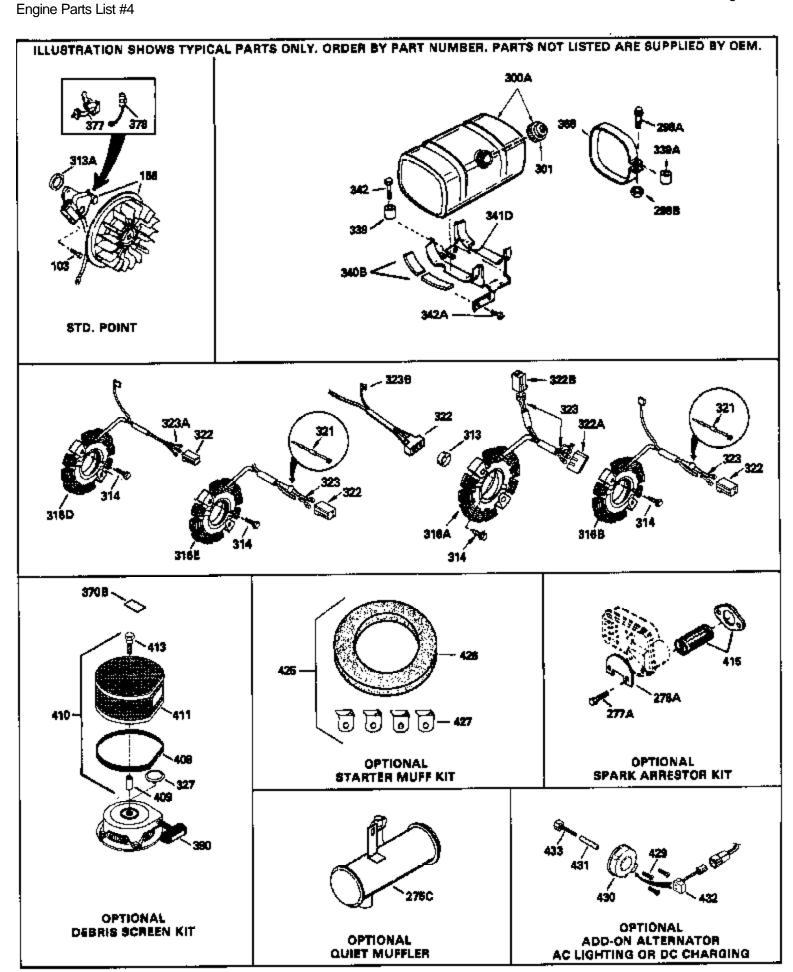
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Dof #	Port Number	Ohi	Description
	Part Number	Qıy	Description Outlinder (Incl. 2.20.73.73A) (3.4/8" P. oro)
	34348B		Cylinder (Incl.2,20,72,72A) (3-1/8" B ore)
	27652		Pin, Dowel
	27642		Plug, Oil drain
97			Lockwasher, Heavy split, #10 (Buy loc ally)
	26073		Washer, Flat (Use as required)
	650570		Washer, Flat (Use as required)
	27896A		* Gasket, Breather cover
	28423		Body, Breather
171	28424		Element, Breather
172	28425		Cover, Valve spring
173	35350		Tube, Breather
174	650597		Screw, 10-24 x 5/8"
174	650128		Screw, 10-24 x 1/2"
	29752		Nut & Lockwasher, 1/4-28
	30593		Clip, Primer line (Use as required)
	33878		Link, Governor-to-throttle
	730127		Air Cleaner Ass'y. (Incl.238,239,240,241,243,245 & 370)
<u></u> ;	700127		(Use as required)
			(Osc as required)
227	730164		Air Cleaner Ass'y. (Incl. 238, 239, 240, 241, 243 & 245) (Use
			as required)
2284	650824		Stud, 1/4-20 x 7.33 (Use as required)
	650851		Stud, 1/4-20 x 7.33 (Use as required) (Used with drilled thru
220A	030031		·
			elbow)
239	27272A		* Gasket, Air cleaner
239	27272A		* Gasket, Air cleaner
241	33266		Bracket, Air cleaner
242	33267		Bracket, Air cleaner
243	28820		Screw, 10-32 x 1/2"
245A	34700		Element, Air cleaner
	33268		Element, Air cleaner
	33269A		Cover, Air cleaner
	650513		Nut, Wing, 1/2-20
	391026		Muffler (Incl. 284, 284A & 416A) (This spark arresting muffler
2.02	00.020		can be used on any model.)
	000004		•
	33280A		Muffler
	31588		Plate, Muffler locking
	650729		Screw, 5/16-18 x 3-3/16"
	26460		Clamp, Fuel line (Use as required)
	35554		Tube, Oil fill
	29673		* Gasket, Oil fill
	35499		"O" Ring
310A	35941		Dipstick (Incl. 306)
370J	34870		Decal, Instruction Can be used on HM80 with diecast starter.
	34387		Decal, Instruction Can be used on HM80 with stamped steel
			recoil starter.
200	622251		Corburator (Incl. 194) (Defer to Division 5. Continue A. nome
380	632351		Carburetor (Incl. 184) (Refer to Division 5, Section A, page
			188 for breakdown or Fiche18A-1, Grid F-5)



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		Qty	Description
	33454		Governor Lever Assy.
17	29916		Clamp, Governor lever
18	650548		Screw, 8-32 x 5/16"
30	35255		Crankshaft (Incl. 108 & 109)
35	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
	35262		* Gasket, Cylinder cover
	33367B		Cylinder Cover (Incl. 71, 75, 80, 311 & 312)
	31855		Retainer, Bearing
	31950		Seal, Oil
	650833		Screw, 1/4-20 x 1-3/16"
	650832		Screw, 1/4-20 x 1-11/16"
	32589		Key, Flywheel
97	00700		Lockwasher, Heavy split, #10 (Buy loc ally)
	29783		Pin, Crankshaft gear
	33245		Gear, Crankshaft
	26073		Washer, Flat (Use as required)
	650570		Washer, Flat (Use as required)
130A	6021A		Screw, 5/16-18 x 1-1/2" (Use as required, but do notuse with
			650691 washer)
131Δ	650713		Screw, 5/16-18 x 5/8" (Use as require d)
	792028		Screw, 5/16-18 x 7/8" (Use as require d)
	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
	30593		Clip, Primer line (Use as required)
	650824		Stud, 1/4-20 x 7.33 (Use as required)
228A	650851		Stud, 1/4-20 x 8.1 (Use as required) (Used with drilled thru
			elbow)
242	33267		Bracket, Air cleaner
	33269A		Cover, Air cleaner
	35865		
			Gasket, Exhaust (Use as required)
	33280A		Muffler Muffler (Incl. 2014, 2014, 8, 44CA) (This arrest arresting insuffler
2/5B	391026		Muffler (Incl. 284, 284A & 416A) (This spark arresting muffler
			can be used on any model.)
277	650729		Screw, 5/16-18 x 3-3/16"
	650665		Screw, 1/4-15 x 7/8"
	410144B		Fuel Cap (White Plastic)(Std)(1-1/2" I.D.)
	33032		Fuel Cap (Red Plastic) (Spurt Resistant, Low Profile) (1-3/16"
001	00002		I.D.)
			·
301	34210		Fuel Cap (Red Plastic) (Spurt Resistant, High Profile)
			(1-3/16" I.D)
201	35355		Fuel Can (Red plastic) (1-1/2" LD)
			Fuel Cap (Red plastic) (1-1/2" I.D.)
	35038		Spacer, Tank Pagel Instruction Con be used on HM90 with dispect starter
	34870		Decal, Instruction Can be used on HM80 with diecast starter.
415	730130		Exh.Adapter Kit (Incl.274,277)(Use as req.)



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Ref #	Part Number	Qty Description
97 103 127A 127A 179B 228A	650814 26073 650570 30593 650824 650851	Lockwasher, Heavy split, #10 (Buy loc ally) Screw, Torx T-15, 10-24 x 1" Washer, Flat (Use as required) Washer, Flat (Use as required) Clip, Primer line (Use as required) Stud, 1/4-20 x 7.33 (Use as required) Stud, 1/4-20 x 8.1 (Use as required) (Used with drilled thru elbow)
250B 275C	33267 33269A 35824 391026	Bracket, Air cleaner Cover, Air cleaner Muffler (Optional quiet muffler) Muffler (Incl. 284, 284A & 416A) (This spark arresting muffler can be used on any model.)
301	650696 410144B 33032	Screw, 5/16-18x2-3/4" (Used with 276A) 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)
327 339 342	35355 35392 35038 650561 34387	Fuel Cap (Red plastic) (1-1/2" I.D.) Plug, Starter Spacer, Tank Screw, 1/4-20 x 5/8" Decal, Instruction Can be used on HM80 with stamped steel recoil starter.
	34870 35570	Decal, Instruction Can be used on HM80 with diecast starter. 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).

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Ref # Part Number 432 611079	Qty Description 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).