



## SYNERGY OHV Models

Issued: 02/96  
Revised: 08/98

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<b>SYNERGY OHV E-56</b>	63,50 mm	46,80 mm	148 cc
<b>SYNERGY OHV E-66</b>	66,60 mm	49,20 mm	172 cc

<b>SYNERGY OHV E-56</b>	E-56000	E-56020	E-56026	E-56101	E-56104
	E-56105	E-56106			
<b>SYNERGY OHV E-66</b>	E-66002	E-66003	E-66100	E-66105	

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Sub-Assembly details by specification number for:

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<b>SYNERGY OHV E-56</b>	<b>Carburettor</b>	<b>Rc. Starter</b>	<b>El. Starter</b>	<b>Crankshaft</b>	<b>Idle Rpm +/- 200</b>	<b>High Rpm +/- 100</b>
E-56000	23020140	14210056		16070036	2000	3000
E-56020	23020140	14210056		16070036	2000	3150
E-56026	23020140	14210056	16410002	16070111	2000	3000
E-56101	23020140	14210056		16070036	2000	3000
E-56104	23020140	14210056		16070044	2000	3000
E-56105	23020140	14210056	16410002	16070044	2000	3000
E-56106	23020140	14210056	16410002	16070111	2000	3000

<b>SYNERGY OHV E-66</b>	<b>Carburettor</b>	<b>Rc. Starter</b>	<b>El. Starter</b>	<b>Crankshaft</b>	<b>Idle Rpm +/- 200</b>	<b>High Rpm +/- 100</b>
E-66002	23020140	14210056		16070121	2000	3000
E-66003	23020140	14210056		16070121	2000	3000
E-66100	23020140	14210056		16070121	2000	3000
E-66105	23020140	14210056	16410002	16070055	2000	3000

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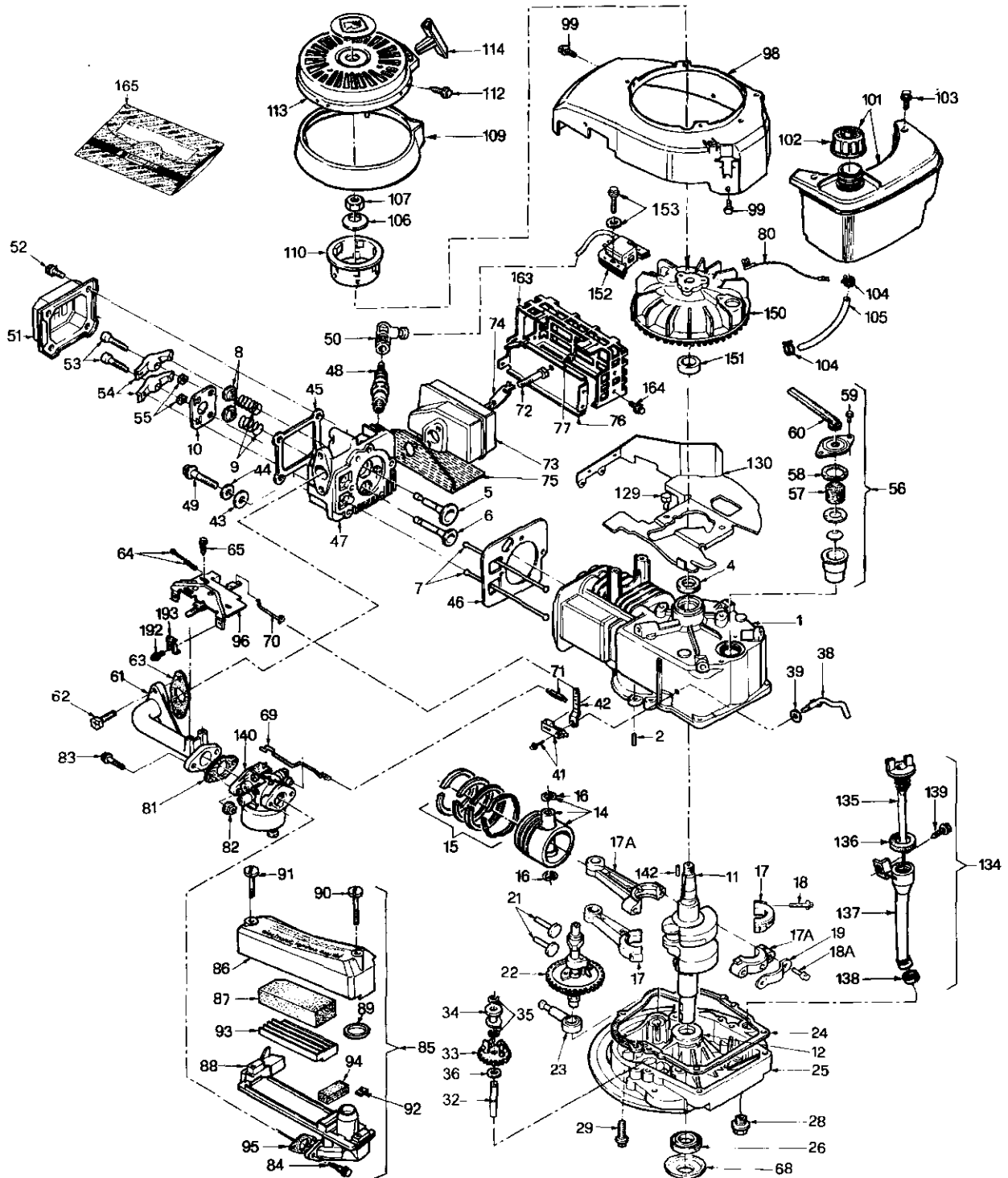


SYNERGY OHV

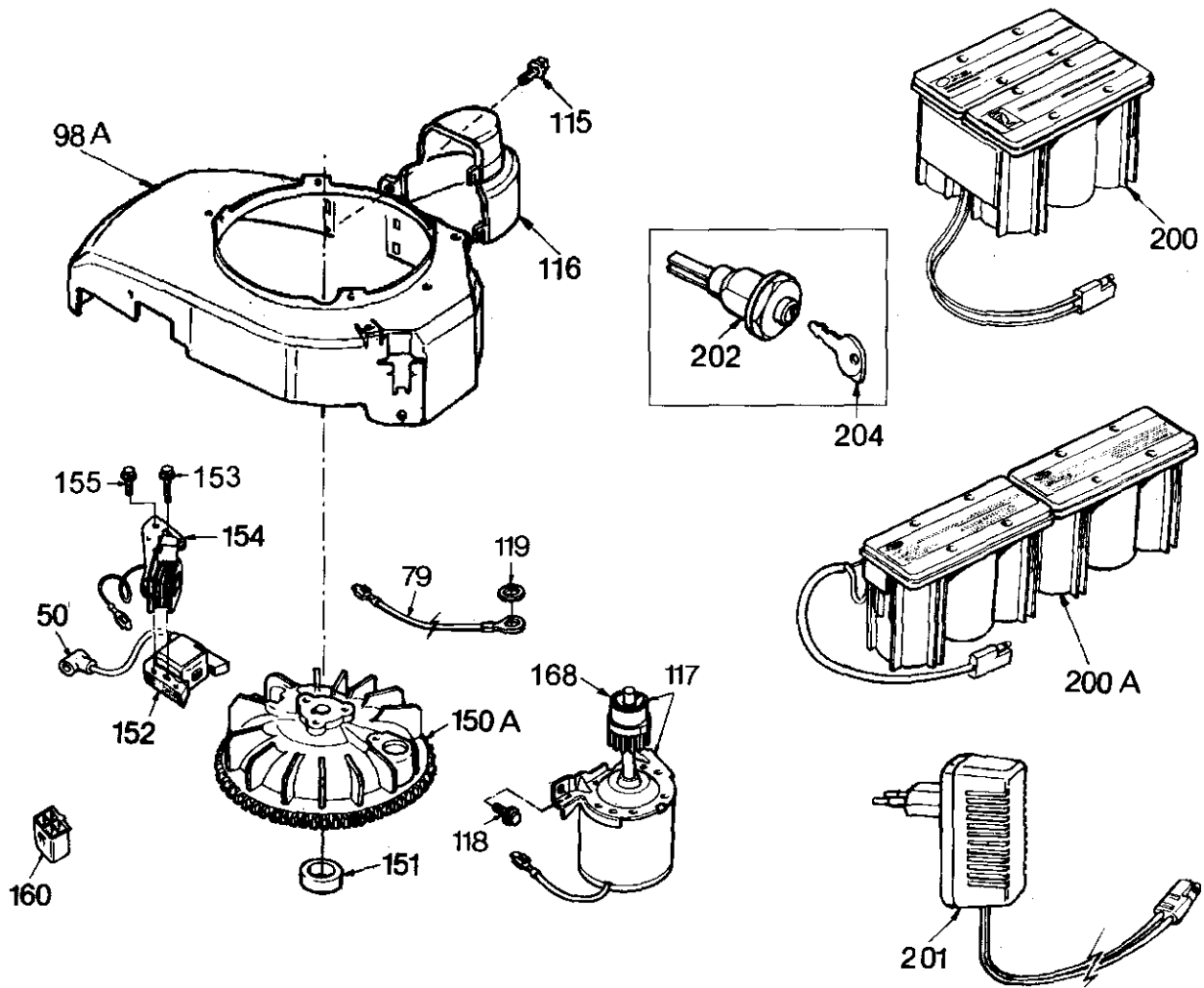
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Ref.No.	Part No.	Part Name
1	16010030	Cylinder Assy. (Inc.-2,4)(63.50 mm Bore) <b>E-56000</b> ,020,026,101,104,105,106
1	16010032	Cylinder Assy. (Inc.-2,4)(66.60 mm Bore) <b>E-66002</b> ,003,100,105
2	29410001	Dowel Pin
4	29610017 *	Oil Seal
5	16130007	Intake Valve (Inc.-8,9)(Std)
5	16130008	Intake Valve (Inc.-8,9)(OS. 0.80 mm)
6	16140007	Exhaust Valve (Inc.-9,10)(Std)
6	16140008	Exhaust Valve (Inc.-9,10)(OS. 0.80 mm)
7	22450002	Push Rod
8	22470006	Lower Valve Spring Keeper
9	27910003	Valve Spring
10	22450003	Push Rod Guide
11	16070036	Crankshaft <b>E-56000</b> ,020,101
11	16070044	Crankshaft <b>E-56104</b> ,105
11	16070055	Crankshaft <b>E-66105</b>
11	16070111	Crankshaft <b>E-56026</b> ,106
11	16070121	Crankshaft <b>E-66002</b> ,003,100
12	29520006	Thrust Washer
14	16090007	Piston & Pin Assy. (Inc.-16)(Std 63.50 mm Bore)
14	16090008	Piston & Pin Assy. (Inc.-16)(OS. 0.25 mm)
14	16090009	Piston & Pin Assy. (Inc.-16)(OS. 0.50 mm) <b>E-56000</b> ,020,026,101,104,105,106
14	16090026	Piston & Pin Assy. (Inc.-16)(Std 66.60 mm Bore)
14	16090027	Piston & Pin Assy. (Inc.-16)(OS. 0.25 mm)
14	16090028	Piston & Pin Assy. (Inc.-16)(OS. 0.50 mm) <b>E-66002</b> ,003,100,105
15	16100009	Ring Set (Std 63.50 mm Bore)
15	16100010	Ring Set (OS. 0.25 mm)
15	16100011	Ring Set (OS. 0.50 mm) <b>E-56000</b> ,020,026,101,104,105,106
15	16100018	Ring Set (Std 66.60 mm Bore)
15	16100019	Ring Set (OS. 0.25 mm)
15	16100020	Ring Set (OS. 0.50 mm) <b>E-66002</b> ,003,100,105
16	29450004	Piston Pin Retainer
17	16110010	Connecting Rod (Inc.-18) <b>E-66002</b> ,003,100,105
17A	16110006	Connecting Rod (Inc.-18A,19) <b>E-56000</b> ,020,026,101,104,105,106
18	29190164	Screw 1/4-20 (L=23mm) <b>E-66002</b> ,003,100,105
18A	29180039	Screw 1/4-20 (L=25mm)
19	29490025	Connecting Rod Clip <b>E-56000</b> ,020,026,101,104,105,106
21	22440004	Valve Lifter
22	16120015	Camshaft (MCR)
23	16160004	Oil Pump Assy
24	29630001 *	Flange Assy. Gasket

Note: Always check Master Price List for replacement part numbers.

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Ref.No.	Part No.	Part Name
25	16030013	Flange Assy. (Inc.-26,28,32)
26	29610018	* Oil Seal
28	29320035	Oil Drain Plug
29	29190075	Screw 1/4-20 (L=30mm)
32	22720001	Governor Shaft
33	16170001	Governor Gear
34	22740001	Governor Spool
35	29450005	Governor Gear Retainer
36	29510015	Washer
38	22750009	Governor Rod
39	29510029	Washer
41	16500009	Governor Lever Clamp
42	27240108	Governor Lever
43	29510086	Washer
44	29510085	Belleville Washer
45	29630110	* Rocker Arm Cover Gasket
46	29620021	* Cylinder Head Gasket <b>E-56000</b> ,020,026,101,104,105,106
46	29620022	* Cylinder Head Gasket <b>E-66002</b> ,003,100,105
47	16050001	Cylinder Head (Inc.-5,6,8,9,10,45,53,54,55)
48	29010023	Spark Plug
49	29180072	Screw 5/16-18 (L=39mm)
50	15950002	Spark Plug Cover
51	27520018	Rocker Arm Cover
52	29190192	Screw 1/4-20 (L=12mm)
53	29180071	Screw 1/4-28 (L=30mm)
54	22450001	Rocker Arm
55	29210038	Nut 1/4-28
56	16190003	Breather Assy. (Inc.-57,58,59,60)
57	27140005	Breather Element
58	29630111	* Breather Gasket
59	29190186	Screw 10-24 (L=14mm)
60	21670009	Breather Tube
61	21510015	Intake Pipe
62	29170058	Screw 1/4-20 (L=25mm)
63	29630103	* Intake Pipe Gasket
64	16630030	Control Screws Set
65	29190186	Screw 10-24 (L=14mm)
68	29590022	Oil Seal Cover
69	27250040	Throttle Link
70	27250039	Governor Link
71	27920010	Governor Spring <b>E-56020</b> ,026,105,106
71	27920123	Governor Spring <b>E-56000</b> ,101,104
71	27920128	Governor Spring <b>E-66002</b> ,003,100,105
72	29180070	Screw 5/16-18 (L=80mm)
73	21520112	Muffler
74	27530027	Lock Plate
75	29630109	* Muffler Gasket
76	27410111	Muffler Guard Bracket
77	29190190	Screw M4 (L=8mm)

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Ref.No.	Part No.	Part Name
79	14940028	Ground Wire (To Battery) <b>E-56026</b> ,105,106 <b>E-66105</b>
80	16380001	Ground Wire
81	29630013	* Carburettor Gasket
82	29210013	Nut 1/4-20
83	29190219	Screw 1/4-20 (L=22mm)
84	29190208	Screw 10-32 (L=16mm)
85	16290020	Air Filter Assy. (Inc.-86,87,88,89,90,91,92,93,94)
86	23430066	Air Filter Cover
87	23410047	Air Cleaner Filter
88	23420056	Air Filter Body
89	29630090	* Filter Cover Seal
90	29190241	Screw M5 (L=62 mm)
91	29190242	Screw M5 (L=36 mm)
92	29220007	Nut M5
93	27420035	Air Cleaner Base
94	27140008	Breather Element
95	29630086	* Air Filter Gasket
96	17410041	Remote Speed Control (Inc.-64)
98	14320070	Blower Housing <b>E-56101</b> ,104 <b>E-66003</b>
98	24320208	Blower Housing <b>E-56000</b> ,020 <b>E-66002</b> ,100
98A	14320088	Blower Housing <b>E-56026</b> ,105,106 <b>E-66105</b>
99	29190038	Screw 1/4-20 (L=12mm)
101	16210031	Fuel Tank (Inc.-102)
102	13350003	Fuel Filler Cap
103	29190090	Screw 10-32 (L=14mm)
104	29490031	Fuel Line Clamp
105	16270001	Fuel Line (Available only in 5m coils)
106	29510050	Belleville Washer
107	29210020	Nut 1/2-20
109	24350060	Coupling Ring <b>E-56000</b> ,101,104,106 <b>E-66002</b> ,003
109	24350064	Coupling Ring <b>E-56105</b> <b>E-66105</b>
109	24350070	Coupling Ring <b>E-66100</b>
110	24220015	Starter Cup
112	29190180	Screw 8-32 (L=8mm)
113	14210056	Rewind Starter (Inc.-114)
114	24230004	Starter Handle
115	29190090	Screw 10-32 (L=14mm)
116	24330066	Starter Cover
117	16410002	Electric Starter Motor (Inc.-168)
118	29190167	Screw 1/4-20 (L=13mm) <b>E-56026</b> ,105,106 <b>E-66105</b>
119	29510016	Washer <b>E-56026</b> ,105,106

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129	29190196	Screw 1/4-20 (L=9mm)
130	14330022	Protection Bracket E-56000 ,020,101,104 E-66002 ,003,100
130	14330024	Protection Bracket E-56026 ,105,106 E-66105
134	16480015	Oil Filler Assy. (Inc.-135,136,137,138,139)
135	29320049	Oil Dipstick
136	29630094	* Oil Dipstick Gasket
137	29140024	Oil Filler Tube
138	29610024	* O'Ring E-56000 ,020,026,101,104,105,106
138	29610032	* O'Ring E-66002 ,003,100,105
139	29190090	Screw 10-32 (L=14mm)
140	23020140	Carburettor
142	29410009	Flywheel Key E-56020 ,026
142	29410012	Flywheel Key E-56000 ,101,104,105,106 E-66002 ,003,100,105
150	24110031	Flywheel (Std) E-56000 ,101,104 E-66002 ,003,100
150	24110032	Flywheel (Heavy) E-56020
150A	14110024	Flywheel (Heavy) E-56026
150A	24110037	Flywheel (w/ring gear) E-56105 ,106 E-66105
151	29490055	Flywheel Key Spacer
152	14160041	Solid State (Coil & Lamination)(Inc.-50)
153	29190168	Screw 10-24 (L=24mm)
154	14450001	Alternator Coil
155	29190166	Screw 8-32 (L=11mm)
160	24450007	Connector E-56026 ,105,106 E-66105
163	24330045	Muffler Guard
164	29190157	Screw 8-32 (L=9mm)
165	16610023	Gasket Set
168	16630037	Kit Starter Pinion E-56026 ,105,106 E-66105
192	29190174	Screw 10-32 (L=6mm)
193	29490004	Conduit Clip
201	24450010	Battery Charger
202	16360002	Switch Assy .
204	24450011	Ignition Key E-56026 ,105,106 E-66105

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