

BRIGGS&STRATTON MASTER PARTS CATALOG

2015-16

2015-16 **MASTER PARTS CATALOG**

PARTS

for the latest engines



- Engine Parts & Accessories
- Retail Parts & Accessories
- Engines
- Service Tools

- Power Products Parts
- Murray® Parts
- Dealer Merchandise
- Reference

BRIGGS&STRATTON MASTER PARTS CATALOG



Briggs & Stratton Corporation is the world's largest producer of gasoline engines for outdoor power equipment and has been providing power for consumers and professionals for over a century now.

Briggs & Stratton, through its subsidiary Briggs & Stratton Power Products Group, LLC, is also a leading designer, manufacturer and marketer of generators (portable and standby), pressure washers, snow throwers, lawn and garden equipment and related accessories. With that kind of market breadth, a strong service network is necessary to provide customers with the service they deserve.

The Briggs & Stratton Dealer Network provides this superior service and support. Our dealers represent the crucial human link between Briggs & Stratton and our end customers. With the increasingly important focus on the consumer, we need to make certain our dealers are equipped with the necessary tools to exceed consumer expectations.

This latest revised edition of Briggs & Stratton's Master Parts Catalog was developed as one of those essential tools, and is designed to help you find exactly what you're looking for quickly and easily. The catalog has been revised to be a functional resource for all of your part and accessory needs.

Inside, you'll find Briggs & Stratton's broad selection of genuine parts that make a Briggs & Stratton® engine run at its best. Additionally, the Dealer Merchandise section includes all of Briggs & Stratton's merchandising options to make your dealership stand out as a Briggs & Stratton dealer and also an efficient place to shop. Individuals interested in acquiring information regarding the Briggs & Stratton dealer programs should contact the Integrated Distributor (IDN) in their area (See Authorized Distribution Network map on page 16-3).

Briggs & Stratton Dealers may log on to www.ThePowerPortal.com for a wealth of information exclusively available to our business partners. The site saves you time and money by meeting your training needs. Also accessible through The Power Portal is the Custom Marketing program designed for you to easily market your products and services. If you do not have a current user name and password, please contact your IDN sales representative or call 1-800-480-9403.

All of us at Briggs & Stratton wish you the best of luck in your business and future sales. Thank you for your commitment to high quality parts and service!



ii LEGEND

The icons used next to each part represent the packaging available for that part.

EXAMPLE:



Red Box - individually packaged part (most dealers stock)



Display Packaged Parts - displayed on the Briggs & Stratton Merchandise Displays, pg. 17-1



Shop Pack - multiple quantity packaged



Mega Pack - bulk quantity packaged (The Mega Pack is marked individually, see below)

• Under each icon column is the part number of the packaged part.

EXAMPLE:					
8	Air Filter Cartridge	Intek™ V-Twin Engines, Uses 273638S Pre-Cleaner	499486S	5063 w/273638S Pre- cleaner	4223 Qty. 6
	Air Filter Cartridge	625-1575 Series™, 3.5-6.5 Gross HP‡ Quantum® Engines, Uses 491435S or 493537S Pre-cleaner	491588S	5043	491588B Qty. 336

The air filter cartridge in the normal Red Box Package is part number 499486S.
 It can also be ordered in the Display Parts Package under part number 5063.
 It can also be ordered in the Shop Pack Package under part number 4223 with a quantity of 6 filters in the box.

Parts can be ordered in the Mega Pack Package if you see the mega pack icon in the last column as in the example above as part number 491588B with a quantity of 336 filters in the box.

If you would like to see a photograph of a Display Parts Package, refer to the Retail Parts & Accessories section, pg. 9-2.



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AIR FILTERS – FOAM 1-1







Air Filter Foam Element	2-5 Gross HP ¹ Horizontal	27987\$		4108 Qty. 5
Air Filter Foam Element	3 & 3.5 Gross HP [‡] Vertical	270579\$	5099	4104 Qty. 5
Air Filter Foam Element	Vertical Models 82500-92900 w/Automatic Choke	270251		
Air Filter Foam Element	450-600 Series [™] , 4.5-6 Gross Torque [†] , 3-3.75 Gross HP [‡] Vertical Classic [™] & Sprint [™] , 4 Gross HP [‡] Quattro [™]	272235\$	5047	4107 Qty. 6
Air Filter Foam Element	4 Gross HP [‡] (10 CID) Vertical	270067		
Air Filter Foam Element	4 Gross HP [‡] Vertical	270848		
Air Filter Foam Element	5 Gross HP [‡] Vertical	270447		
Air Filter Foam Element	7 & 8 Gross HP [‡] Vertical	270528\$		4133 Qty. 4
Air Filter Foam Element	7-14 Gross HP ¹ (Early Style)	270093		
Air Filter Foam Element	8-11.5 Gross HP [‡] Vertical	272922		
Air Filter Foam Element	10 & 11 Gross HP [‡] Vertical	270843S		4134 Qty. 4



1-2 AIR FILTERS - CARTRIDGE

	Air Filter Foam Element	450-600 Series [™] , 4.5-6 Gross Torque [†] , 3.5-4.5 Gross HP [‡] Q [™] 45, Classic [™] , Sprint [™] , Quattro [™] Engines, w/plastic air cleaner housings	698369	5088+5099	4216 Qty. 6
	Air Filter Foam Element	6 Gross HP [‡] Europa [™] Vertical, 6 Gross HP [‡] Vanguard [™] Vertical, 7.5 Gross HP [‡] Vanguard [™] Horizontal	691315		
	Air Filter Foam Element	6.5-6.75 Gross HP [‡] Quantum [®] Engines	794071		
	Air Filter Foam Element	675-875 Series [™]	797301	5433	4249 Qty. 5
	Air Filter Foam Element	450e -500e Series [™] with foam filter	799579	5434	4248 Qty. 5
	Air Filter Foam Element	Fource™	696923		
	Air Filter Foam Element	Horizontal 750 Series™	591717		
	Air Filter Upgrade Kit	Replaces all Briggs & Stratton® foam filters, 300-550 Series™, 3.0-5.5 Gross Torque¹, Classic™, Sprint™, Quattro™, and Q™45 3-5 Gross HP‡ Engines		5099	
	Air Filter Cartridge	Europa™ (9 CID) OHV Vertical, Uses 273185S Pre-cleaner Quantum®,12U,12V,12W800	497725S	5055 w/273185S Pre- cleaner	4197 Qty. 4
9	Air Filter Cartridge	7 & 8 Gross HP [‡] Vertical	393406		
	Air Filter Cartridge	7, 8 & 11 Gross HP [‡] Horizontal, Uses 271939 Pre-cleaner	399968		
	Air Filter Cartridge	8.5, 10.5 & 11 Gross HP [‡] Vertical Uses 272477S Pre-cleaner	691667	5075 w/273356S Pre- cleaner	4166 Qty. 5



AIR FILTERS – CARTRIDGE 1-3

	Air Filter Cartridge	12.5-15 Gross HP [‡] Vertical Uses 272403S Pre-cleaner	496894S	5053 w/273356S Pre- cleaner	4139 Oty. 4
	Air Filter Cartridge	L-Head Twin Vertical Uses 272490S Pre-Cleaner	394019S	5052 w/273356S Pre- cleaner	4136 Oty. 4
	Air Filter Cartridge	Intek™5.5-6.75 Gross HP‡Engines, Uses 273356 Pre-Cleaner	697029	5059 w/273356S Pre- cleaner	4207 Qty. 4
	Air Filter Cartridge	475-525 Series [™] , 3.5-4 Gross HP [‡] Engines	790166	5404	
	Air Filter Cartridge	2-5 Gross HP [‡] Horizontal & Vertical, Uses 271466 Pre-cleaner	392308S		
	Air Filter Cartridge	2-5 Gross HP [‡] Horizontal & Vertical, Uses 271466 Pre-cleaner	396424\$		4137 Oty. 4
	Air Filter Cartridge	5.5 Gross HP [‡] (10CID) Vertical Vanguard™, Uses 272218 Pre-cleaner	491950		
	Air Filter Cartridge	6-6.5 Gross HP‡Intek™Vertical Highmount Metal End Cap	692446		4224 Oty. 4
	Air Filter Cartridge	Intek™5.5-6.75 Gross HP‡Engines, Uses 695303 Pre-Cleaner	695302		
9	Air Filter Cartridge	7 & 8 Gross HP [‡] Horizontal (Early Style)	390492		
	Air Filter Cartridge	10, 11 & 12 Gross HP [‡] Horizontal	392286		



1-4 AIR FILTERS - CARTRIDGE

	Air Filter Cartridge	7-18 Gross HP [‡] Horizontal Uses 271794S Pre-cleaner	393957S		4106 Qty. 4
	Air Filter	Useon500e,550ex,6.25ex,6.75exi,and 7.25exiSeries [™] with paper filter	593260	5432	4247 Qty. 5
	Air Filter Cartridge	6 Gross HP [±] (14 CID) Vertical & Horizontal	496047		
	Air Filter Cartridge	L-Head Twin Horizontal & V-Twin Vanguard, Uses 272490S Pre-Cleaner	394018S	5050 w/272490S Pre- cleaner	4135 Qty. 4
	Air Filter Cartridge	Models 540000 & 610000	841497		4235 Qty. 4
	Air Filter Cartridge	Single Cylinder 20-21 Gross HP [±] Engines and most Model 33 Engines. Uses 793685S Pre-Cleaner	793569	5415 w/793569 Pre- cleaner	
	Air Filter Cartridge	5.50 Gross Torque [†] , 550 Series [™]	796970		
	Air Filter Cartridge	Model 44 & 49 Cyclonic Filter	798897		
	Air Filter Cartridge	Vanguard V-Twin™, Uses 692520 Pre-cleaner	692519		4232 Qty. 5
	Air Filter Cartridge	Used on engine model #385777 & 3L/C	820263		4234 Qty. 4
8	Air Filter Cartridge	Models 540000 & 610000	821136		4236 Qty. 4



AIR FILTERS – CARTRIDGE 1-5

Air Filter Cartridge	10.5-11.5 Gross HP¹Intek™ Vertical Shaft 212900, 214900, 217900 Green Filter	698973		
Air Filter Cartridge	7.0 Gross Torque [†] , Vertical and 700 Series [™] DOV [®] Engines	792038		
Air Filter Cartridge	6.5 Gross HP [‡] Vanguard [™] /Model 13 Vanguard [™] , Uses 798513 Pre-cleaner	797033		4101 Qty. 5
Air Filter Cartridge	Intek [™] , I/C® OHV Gross HP [‡] , Vanguard™ OHV 19 Gross HP [‡] , and Extended Life Series™ Engines	591338		
Air Filter Cartridge	Professional Series [™] 7.75, 8.5, 8.75, Uses Pre-cleaner 796254	795066	5419 w/796254 Pre- cleaner	
Air Filter Cartridge	13.5 Gross HP [‡] Intek [™] , I/C [®] OHV, Vanguard [™] OHV 19.0 Gross HP [‡] Engines. Includes sealing gaskets	797032		
Extended Life Series [™] Air Filter Cartidge	V-Twin 16-27 Gross HP [‡] Engines, Uses Pre-cleaner 276890	792105	5405 w/276890 Pre- cleaner	4233 Qty. 4
Air Filter Cartridge	Model 31 Cartridge Filter	591334		
Air Filter Cartridge	625-1575 Series [™] , 3.5-6.5 Gross HP [±] Quantum [®] Engines, Uses 491435S or 493537S Pre-cleaner	491588S	5043	491588B Qty. 336
Air Filter Cartridge	3.5 Gross HP [‡] Quantum® (10 CID)	399877\$		4103 Qty. 5
Air Filter Cartridge	12.5-16 Gross HP [‡] Horizontal & Vertical V-Twin Vanguard [™] , Uses 805267S pre-cleaner	805113		4140 Qty. 5



1-6 AIR FILTERS - CARTRIDGE

	Air Filter Cartridge	7-11 Gross HP [‡] Single Cylinder Industrial Plus™ Engines	691643		4195 Oty. 5
0	Air Filter Cartridge	Intek™V-Twin Engines, Uses 273638S Pre-Cleaner	499486S	5063 w/273638S Pre- cleaner	4223 Qty. 6
	Air Filter Cartridge	3.5 & 4 Gross HP ¹ Max Series & 2-Cycle, Uses 399039 Pre-cleaner	397795\$	5027	4102 Qty. 5
	Air Filter Cartridge	9-15 Gross HP [‡] Single Cylinder Vanguard™ Engines, Uses 710268 Pre-cleaner	710266		4152 Oty. 4
	Air Filter Cartridge	3.5&5Gross HP‡Industrial Plus™, Uses 492889 Pre-cleaner	494511S		4145 Oty. 4
	Air Filter Cartridge	4 Gross HP [±] (8 CID), Uses 710267 Pre-cleaner	710265		4154 Oty. 4
1	Air Filter Cartridge	9 Gross HP [‡] (16 CID) Vanguard [™] , Uses 492889 Pre-cleaner	491384		4155 Oty. 4
	Air Filter Cartridge	Model 050000	711459		4156 Oty. 4
0	Extended Life Series™ Air Filter Cartidge	18-26 Gross HP [‡] Intek [™] V-Twin Engines, Extended Life Series [™] Version of 499486S/5063	698754	5069 w/273638S Pre- cleaner	
	Extended Life Series [™] Air Filter Cartidge	14-18 Gross HP [‡] I/C [®] , Intek [™] , OHV, Extended Life Series [™] & AVS [®] . Extended Life Series [™] Version use 697153/5078. Uses Pre-cleaner 697015	795115	5078	4214 Qty. 6
	Air Filter Cartridge AVS®	14-18 Gross HP [‡] I/C®, Intek™, OHV& AVS® Engines, For Extended Life Series™ Version use 697153/5078, Uses Pre-cleaner 697015	797008	5077	4214 Qty. 6



PRE-CLEANERS 1-7

Air Filter Cartridge	8-13.5 Gross HP [‡] Power Built [™] OHV I/C®OHV & AVS® Engines, Uses Pre-cleaner 697292	797007	5079 w/697293 Pre- cleaner	4213 Qty. 6
Air Filter Cartridge	Intek [™] V-Twin 16-27 Gross HP [‡] Engines, Uses Pre-cleaner 273635S	792101	5408 w/273638S Pre- cleaner	
Pre-Cleaner	Europa (9CID) OHV Vertical, Quantum®, 12U, 12V, 12W800, Pre-cleaner for 497725S	273185S		
Pre-Cleaner	12.5 & 14 Gross HP [‡] (26 CID) Vertical Vanguard [™] , Pre-cleaner for 491021	492947		
Pre-Cleaner	2-5 Gross HP [‡] Horizontal & Vertical Pre-cleaner for 396424S & 392308S	271466		4109 Oty. 4
Pre-Cleaner	7-18 Gross HP [‡] Horizontal Pre-cleaner for 393957S	271794S		4141 Qty. 5
Pre-Cleaner	L-Head Twin Vertical, L-Head Twin Horizontal & V-Twin Vanguard™ Pre-cleanerfor 394018 & 19S	272490S		4111 Qty. 6
Pre-Cleaner	7, 8 & 11 Gross HP [‡] Horizontal Pre-cleaner for 399968	271939		
Pre-Cleaner	Pre-cleaner for 399806S	271962S		4110 Qty. 4
Pre-Cleaner	Intek [™] V-Twin Pre-cleaner for 499486S	273638S		
Pre-Cleaner	12.5&14GrossHP [‡] (26CID)Vertical Vanguard [™] Pre-cleaner (Heavy Duty) for 491021	272444		



1-8 PRE-CLEANERS

	Pre-Cleaner	Intek [™] 5.5-6.75 Gross HP [‡] Engines Pre-cleaner for 697029	273356S		4201 Qty. 5
	Pre-Cleaner	5.5 Gross HP [‡] (10CID) Vertical Vanguard [™] , Uses 491950 Pre-cleaner	272218		
	Pre-Cleaner	Pre-cleaner for 691667	272477S		4199 Oty. 5
	Pre-Cleaner	Pre-cleaner for 496894S	272403S		4142 Qty. 5
	Pre-Cleaner	6.5 Gross HP [‡] Vanguard [™] Pre-cleaner for 798513	798513		
	Pre-Cleaner	Pre-cleaner for 491588S	491435S		4146 Qty. 5
	Pre-Cleaner	Pre-cleaner for 397795S	399039		
200	Pre-Cleaner	Pre-cleaner for 491384, 494511S, 691643	492889		4148 Qty. 5
	Pre-Cleaner	Pre-cleaner for 491588S Wire mesh version - Selected Models	493537S	5064	4147 Qty. 5
	Pre-Cleaner	Pre-cleaner for 710265	710267		
	Pre-Cleaner	Used on model 050000 Pre-cleaner for 711459	711460		



PRE-CLEANERS 1-9

118	Pre-Cleaner	Pre-cleaner for 710266	710268	
	Pre-Cleaner	Pre-cleaner for 805113	805267\$	4143 Qty. 5
To all	Pre-Cleaner	Pre-cleaner for 689413	697292	4215 Qty. 5
	Pre-Cleaner	Pre-cleaner 698083	697015	
	Pre-Cleaner	Pre-cleaner 695302	695303	
	Pre-Cleaner	Professional Series [™] 7.75, 8.5, 8.75, Pre-cleaner for 795066	796254	
	Pre-Cleaner	Pre-cleaner for 793028	793676	
	Pre-Cleaner	Single Cylinder 20-21 Gross HP [‡] Used with 793569	793685	
	Pre-Cleaner	Pre-cleaner for 692519	692520	
	Pre-Cleaner	Pre-cleaner for 798897	593217	
0	Filter Pre-Cleaner		590602	
8	Filter Pre-Cleaner		798911	



2-1 INTAKE & EXHAUST VALVES

5/16" VALVE GUIDES L-HEAD **ENGINES OVER 5 HP**

Use Guide Numbers

1/4" VALVE GUIDES L-HEAD **ENGINES OVER 5 HP & UNDER**

Use Guide Numbers

Bushing removed from	Sintered Guide Gray or Copper Colored	d 261961
cylinder	BrassGuide1or2Grooves	231218
	Brass Guide No Grooves	230655
	Aluminum Guide or Cast Iron Cylinder	231218

For valve guide part number(s) on OHV engines, consult Repair Instruction Handbook for respective engine(s).

Bushing removed from cylinder	3/4" (19 mm)	Sintered Guide Gray or Copper Colored	262001
	3/4" (19 mm)	Brass Guide 1 or 2 Grooves	231348
	1-1/16" (26.97 mm)	Brass Guide 1 or 2 Grooves	231349
	3/4" (19 mm)	Brass Guide No Grooves	63709
	3/4" (19 mm)	Aluminum Guide or Cast Iron Cylinder	63709



MUFFLERS - LO-TONE™ 3-1







<u> </u>	Lo-Tone [™]	5.0 Gross HP [‡] Horizontal & Vertical engines	390918S	
	Lo-Tone [™]	3.0-4.0 Gross HP [‡] Vertical (1/2" NPT)	394569S	
	Lo-Tone [™]	2-4 Gross HP [‡] (11 CID) Horizontal (1/2" NPT)	493288	
No.	Lo-Tone [™]	Selected Model 28 Verticals	496022S	
	Lo-Tone [™]	5.0-8.0 Gross HP [‡] Horizontal & Vertical (3/4" NPT)	393010S	
	Lo-Tone [™]	9-18 Gross HP [‡] Horizontal Remote Mount	399635	
	Lo-Tone [™]	Selected Model 28 Verticals	495805S	
	Lo-Tone [™]	10.0 & 11 Gross HP [‡] Horizontal	497470	
9)4	Lo-Tone [™]	10.0-12.5 Gross HP ^t Horizontal & Vertical engines Special RAF Reduced Noise Design	691874	
	Lo-Tone™	625-675 Series [™] engines 6.0 Gross HP [‡] Quantum [®] engines	692038	
30	Lo-Tone [™]	6.5 Gross HP Vanguard [™] engines	798515	



3-2 MUFFLERS - SUPER LO-TONE™ - STANDARD

	Super Lo-Tone [™]	Europa™ (9 CID) OHV Vertical	494717	
	Super Lo-Tone [™]	5.0 Gross HP [‡] Horizontal	496892	
1100	Super Lo-Tone [™]	3.0 & 4.0 Gross HP [‡] (11CID) Horizontal	691360	
0.0	Super Lo-Tone [™]	3.0-4.0 Gross HP [‡] Vertical	692307	
	Super Lo-Tone [™]	7.0 & 8.0 Gross HP [‡] Horizontal & Vertical	494222	
	Super Lo-Tone [™]	8.0 & 11.0 Gross HP [‡] Horizontal 18.0 Gross HP [‡] Opposed Twin Horizontal Selected Models OHV Twins - (Horizontal & Vertical C/S Models/ Remote Mount) Special RAF Reduced Noise Design	498984S	
	Super Lo-Tone [™]	5.0 Gross HP [‡] Horizontal Special RAF Reduced Noise Design	691969	
23.	Super Lo-Tone [™]	3.0-5.0 Gross HP [‡] Industrial Plus [™]	692365	
	Muffler	850 Series [™] engines 6.0 Gross HP [‡] Intek [™] engines	693593	
	Standard	2 & 3 Gross HP [‡] Horizontal (1/2" NPT)	89966	
	Standard	8-16 HP [‡] Horizontal Cast Iron Models (7" Pipe Length, 1" NPT)	299477S	



MUFFLERS - STANDARD - VANGUARD™ 3-3







	Standard	9-16 Gross HP [‡] Single Cylinder (Less Pipe Extension)	392989	
	Muffler	850 Series [™] engines 6.0 Gross HP Intek [™] engines	694429	
	Standard	10-12 Gross HP [±] 8" Pipe Length	391569S	
	Standard	16 Gross HP [‡] Horizontal Cast Iron Models (11" Pipe Length, 1" NPT)	393232S	
	Standard	Professional Series™ 8.50-8.75 Gross Torque†	796495	
	Lo-Tone [™]	4.0 Gross HP Vanguard [™] engines OHV Horizontal engines	715487	
	Lo-Tone [™]	5.5 & 6.0 Gross HP Vanguard [™] engines OHV Horizontal engines	715435	
	Super Lo-Tone [™]	12.5, 16, 18 Gross HP [‡] Vanguard [™] V-Twin Horizontal	690931	
7	Super Lo-Tone [™]	Horizontal Vanguard [™] V-Twin 29, 30, 35 High Mount (Oil Filter Side Outlet)	807799	
	Super Lo-Tone™	Horizontal Vanguard [™] V-Twin 29, 30, 35 High Mount (Starter Side Outlet)	807831	
	Muffler	Model 118400	711239	



3-4 MUFFLER DEFLECTORS - SPARK ARRESTERS

	Muffler	Model 543400 & 613100	841680	
	Muffler	Model 50032	715948	
	Muffler	Model 543400 & 613400	843741	
a qu	Muffler	Model 543400 & 613100	809983	
	Muffler	Model 124600 Outboard Engine	699769	

The items listed below are for use on the engine series shown, when equipped with mufflers designed for use with either a deflector or spark arrester.

	Side Out	Side Out 2	Direct Out	Louvered	Louvered	Spark Arrester
	8 8 8		8888		8 8 8 8	***
60000, 80000, 90000, 94200, 100000, 110000, 120000	393760		397931	None	396548	398067
99700	None		None	None	None	
*85400, 115400, 117400, 138400, 185400, 110400		None	None	None	715491	
130000, 170000			395700	393758	None	399541
190000						817483
93400,133400, 134400, 121S00, 121Q00		692010	None	None	None	690813
250000						817483
280000			396903	795038	None	794945
311700			396903	795038	None	794945
400000, 420000			396903	795038	None	794945
290000, 300000, 311700, 350000			396903	795038	None	794945
83100	797352					
50000, 85400, 86400, 115400, 117400, 138400, 185400	715230					



FUEL FILTERS - LINE CLAMPS 4-1

	Fuel Filter	40 Micron (For Selceted Engines w/ Fuel Pump, See-through)	691035	5065	4129 Qty. 5
	Fuel Filter Assembly	Fuel Filter 394358S (75 Micron)	394358S	5098	4112 Qty. 5 394358B Qty. 100
V	Fuel Filter	150 Micron (For Engines without Fuel Pump)	298090S	5018	4105 Qty. 5
	Fuel Filter	Vanguard™ V-Twins, Horizontal w/9 Quart Fuel Tank	808116S		
	Fuel Strainer	"InTank" Strainerfor 4, 5.5 & 9 Gross HP‡ Vanguard™ and Models 85400, 115400 & 18540. For Models 190000, 235400, 245400 & V-Twin Engines w/9- Quart Fuel	710065 691370		
0	Fuel Line Display Pack	(Replaces 395051 and 499472) - 25', 1/4" ID x 7/16" OD Universal Fit (Not for low perm applications) Cut to Fit 499742 Refill for Display Pack (25')	395051R		
-	Fuel Filter	3/LC Gas	821026		
	Extended Life Series™ Fuel Filter	30 Micron (For Selected Engines w/Fuel Pump)	695666		
	Fuel Line Clamp		710075 ID 10.5 mm .413" 4228 Qty. 100 4262 Qty. 50 691038 Black ID .460" 4230 Qty. 100 4264 Qty. 50 791850 Green ID .490" 4229 Qty. 100 4263 Qty 50 4171 Qty. 5 710067 ID 13.2mm .519"		



4-2 FUEL LINES - SHUT-OFF VALVES

	Fuel Filter	Glass Sediment Bowl Fuel Filter Assembly	690612		
ر چ	Fuel Line	3.5 & 5 Gross HP‡ Industrial Plus™ (Molded)	791857		
R R	Fuel Line	4, 5.5 & 9 Gross HP‡ Vanguard™ (Shut-off Valve to Tank) 4 mm OD x 220 mm (8-5/8") Cut to Fit	716122		
0	Fuel Line	23" (1/2" OD x 1/4" IN) Cut to Fit	791745		
>	Fuel Shut-off Valve	Selected Models	698182		
	Fuel Shut-off Valve	5 Gross HP‡ Vertical Vanguard™ OHV	698184		
	Fuel Shut-off Valve	6.5 Gross HP‡ Vanguard™	798634		
æ æ	Fuel Shut-off Valve	In-Line Valve (Quantum® & Selected Models)	698183	5091	
A se	Fuel Shut-off Valve	3.5 & 5 Gross HP‡ Industrial Plus™ 90 Degree Valve	698181		
	Fuel Shut-off Valve	4, 5.5 & 9 Gross HP‡ Vanguard™	716111		
×	Fuel Shut-off Valve	625-675 Series™ For Quantum® Engines	698180		



FUEL TANK CAPS 4-3







9	Tygon® Bulk Fuel Line		695540 3/32" ID, 50' 695541 1/8" ID, 50' 695542 .080" ID, 50'		
WAP	Fuel Shut-off Valve	For Vanguard™ Engines 2.4 Gross HP‡	715901		
	Fuel Tank Cap	4-11 Gross HP‡	394818S		
	Fuel Tank Cap	135200 & 136200 Horizontal Series/ Selected Models	498156		
	Fuel Tank Cap	5-11 & 13 Gross HP‡ Horizontal	791545		
	Fuel Tank Cap	2-4 Gross HP‡ Horizontal & Vertical, Quattro™	493982S		
	Fuel Tank Cap	6 Gross HP‡ Intek™	792647		
	Fuel Tank Cap	3-5 Gross HP‡ Horizontal, Selected Models	494559		
	Fuel Tank Cap	4, 5.5 & 9 Gross HP‡ Vanguard™	710490		
	Fuel Tank Cap	Vanguard™ OHV (10 & 16 CID) & V-Twins	491367S		
	Fuel Tank Cap	625-675 Series™ & 700-800 Series™, Intek™ Model Series 121600 Vertical 3.5-6.75 Gross HP‡ Vertical Max, Quantum® & Europa™	692046	5044	4227 Qty. 5



4-4 FUEL TANK CAPS

Fuel Tank Cap	Fource™	696921		
Fuel Tank Cap	134400 L-Head, 7-12.5 Gross HP‡ Vertical, 3.5, 5 & 9 Gross HP‡ Industrial Plus™ & 5.5 Gross HP‡ Intek™ & 8 Gross HP‡, 197400, 110400, 121400	795027		
Fuel Tank Cap	450-600 Series™, 3.5 & 3.75 Gross HP‡ Classic™ & Sprint™ and 4 Gross HP‡ Quattro™	497929S	5057	4132 Qty. 5
Fuel Tank Cap	Quantum® Engines	794793		
Gas Cap	400 & 500 Series™ (9000 & 10,000) L-Head engines	792878		
Fuel Tank Cap	Professional Series™ 8.50-8.75 Gross Torque†	796577		
Fuel Tank Cap	450e, 500e, 550e & 550ex, 625ex, 675ex & 725ex Series™, 950-1000 Series™ , Professional Series™ 7.75-8.75	799585	5436	
Fuel Tank Cap	675exi, 725exi Series™	594061	5445	



ARMATURES - CONDENSERS - BREAKERS 5-1

ARMATURES





Engine Model/Gross Horsepower [‡]	Style	Red Box#
2-4 Gross HP [‡] Horizontal & Vertical	Breaker Points	793281
5 Gross HP [‡] Horizontal & Vertical	Breaker Points	397358
7-16 Gross HP [‡] Horizontal & Vertical Single Cylinder	Breaker Points	298968
L-Head Twins	Breaker Points	394891
2-4 Gross HP [‡] Horizontal & Vertical	Magnetron®	793281
Quantum® (10 CID), Series™ 625-675	Magnetron®	490748
5 Gross HP [‡] Horizontal & Vertical, Series [™] 550	Magnetron®	397358
7-16 Gross HP [‡] Horizontal & Vertical Single Cylinder	Magnetron®	398811
13, 14 & 15 Gross HP [‡] (28 CID) OHV Vertical	Magnetron®	492341
L-Head Twins	Magnetron®	394891
2-Cycle, Quantum® (12 CID) & Europa™ (9 CID)	Magnetron®	802574
4, 5.5 & 6 Gross HP [‡] Vanguard [™] (8 & 11 CID)	Magnetron®	715023
5 Gross HP [‡] Vanguard [™] Vertical (10 CID)	Magnetron®	802574
9 Gross HP [‡] Vanguard [™] (18 CID)	Magnetron®	715118
9, 12.5 & 14 Gross HP [‡] Vanguard [™] (V-Twin 2 used)	Magnetron®	492341
10-13 Gross HP [‡] (28 CID) L-Head	Magnetron®	492341
11 & 13 Gross HP [‡] Vanguard™ Horizontal	Magnetron®	492341
6 Gross HP [‡] Intek [™] Vertical (12 CID)	Magnetron®	802574
5.5-6.5 Gross HP [‡] Intek [™] (11 & 12 CID), Series [™] 825-850	Magnetron®	802574
Vanguard [™] V-Twin	Magnetron®	492341
Intek [™] v V-Twin	Magnetron®	691060
3/LC Ignition Coil (3 used)		820037
6.5 Gross HP [‡] Vanguard [™]	Magnetron®	796964
5.50 Gross Torque [†] , 550 Series [™]	Magnetron®	797684
5-7 Gross HP [‡] 2 Cylinder Snow Engines	Magnetron®	801268
2.4 Gross HP [‡] Vanguard [™]	Magnetron®	711526
7.00 Gross Torque [†] , 700 Series [™]	Magnetron®	793449

CONDENSERS - BREAKERS





CONDENSERS - BREAKER ASSEMBLY



Engine Model	Condensers	Breakers
8-16 Gross HP [‡] Horizontal Cast Iron Models	298060	298185
10 & 11 Gross HP [‡] Horizontal & Vertical	29861	391284
Twin Cylinder L-Head Engines	392912	394891

Engine Model	Red Box #	Display Parts#
2-8GrossHP‡Horizontal&Vertical	294628	
2-8 Gross HP [‡] Horizontal & Vertical (w/Plug & Plung	ger)	



[†] All power levels are stated gross torque at 2600 rpm per SAE J1940. ‡ All power levels are stated gross HP at 3600 rpm per SAE J1940.

5-2 FLYWHEEL KEYS - SPARK PLUGS

	Ignition Point Plunger	2-11 Gross HP [‡] horizontal & vertical	65704S	
	Ignition Point Plunger	9-16 Gross HP [‡] horizontal cast iron models	298125S	
E Comment	Ignition Cable Terminal	Selected engines	493880S	
	Magnetron [®] Kit	Used to retrofit most 2-legged ignition armatures w/breaker points	394970	
	Flywheel Key	4, 5.5, 6 & 9 HP [‡] Vanguard [™]	710037	
	Flywheel Key	2-Cycle (9 CID)	800036	
9	Flywheel Key	All V-Twin Vanguard™	808095	
	Flywheel Key	Most engines	222698S	4181 Qty. 10 4144 Qty. 50
	RC14YC, RC12YC Spark Plug	Selected engines	496018S	496018T Qty. 500
The state of the s	RC12YC Spark Plug	Selected engines - 3/LC gas	491055S (.030 gap)	491055T Qty. 500
	RJ19LM Spark Plug	Selected engines	796112S	796112 Qty 300



SPARK PLUG ELBOWS 5-3

	Extended Life Series™ Platinum Spark Plug	Selected L-head engines Extended Life Series™ version of 802592S/5095K	796560	4175 Qty. 24
	Extended Life Series [™] Platinum Spark Plug	Selected OHV engines Extended Life Series [™] version of 496018S/5092K	696202	4173 Qty. 24
	BPRGHS Spark Plug	Models 118400 & 050000	711252	
No.	QC12YC Spark Plug	Selected engines	691043	
	Spark Plug	Model 9 OHV vertical	692051	
	RJ19LMC Spark Plug	625e, 625ex, 725ex Series [™] , 625-675 Series [™] and Quantum [™] 3.5-6.75 Gross HP [‡] engines	591868	
	Spark Plug Elbow	Most engines	66538S	
	Spark Plug Elbow	4, 5.5 & 9 Gross HP [‡] Vanguard™	710634	
~	Spark Plug Elbow	3/LC gas	820084	



5-4 IGNITION SWITCHES

	Part #	Description
	298590	Toggle switch
000	692303	Push button starter switch
	496590	Toggle switch
100	691959	Indak ignition key set for 690646
	392833	Key switch for key 691959
	692318	Key switch assembly - used on engines equipped w/carburetor solenoid
	697854	Rocker switch (with light) Note: Rocker switch without light is 795333
	695747	Key switch used on selected snow engines
	794696	Key used on selected snow engines
	690646	Key switch
	695951	Touch-N-Mow® Key
OF THE	798182	Key switch for 2 cyl snow engine
	798177	Key set for 2 cyl snow engine
	495098S	Stop switch



OIL FILTERS - MISCELLANEOUS 6-1

Oil Filter	Height 3-3/8" For pressure lubrication For 3/LC Gas	491056		4153 Qty. 12
Oil Filter	Height 2-1/4" (smaller version of 491056), For Extended Life Series™ version use 696854/5076K/4206	492932S	5049	4154 Qty. 12
Extended Life Series™ Oil Filter	Extended Life Series [™] version of 492932S/5049K/4154	696854	5076	4206 Qty. 12
Oil Filter	3/LC Gas & Diesel	820314		
Oil Filter Intek [™] Pro	Selected models pressure lubrication	692513		
Oil Gard Kit	9 Gross HP [‡] Vanguard [™] engines	492697		
Oil Fill Plug	Selected engines with angled oil fill neck	281658S		
Oil Fill Cap	3/LC	825024		
Dipstick Tube Seal	12 & 13 Gross HP [‡] (28 CID) Vertical & Vanguard™ V-Twin Horizontal engines, 7 & 11 Gross HP [‡] Horizontal engines	281370S		4203 Qty. 5
Oil Gard Kit	5-11 Gross HP [‡] Horizontal engines	398182		
Oil Filter	BIG BLOCK [™] engines	842921		4237 Qty. 12, MEGA PACK - 842921B Qty. 60



6-2 OIL FILTERS - MISCELLANEOUS

0	Oil Filter	Professional Series [™] 8.50 & 8.75 gross torque [†]	795990	
6	Oil Filter	Models: 31Q000, 400000, 440000, 490000	798576	
	Dipstick/Fill Plug	Vanguard [™] 13H300 6.5 Gross HP [‡]	798503	
4	Dipstick/Fill Plug	83100 550 Series [™] 5.5 Torque [†]	797325	







		STAR	TER G	GRIPS	7-1	Engine Parts
2	Starter Grip	All vertical pull starters 2-5.5 Gross HP [‡] engines Quantum® & Europa™ engines (9CID) engines	393152		4119 Qty. 5	Starting Systems
	Starter Grip	For selected models	281434\$			stems
>	Starter Grip	2.4 Gross HP [‡] Vanguard [™] engines Size #4, 56' Long	711540			
Z	Starter Grip	3.5-10 Gross HP‡single cylinder Vanguard™ horizontal engines	490652			
9	Starter Grip	Mitten grip/Sno Gard engines	699334			
	Starter Grip	6 Gross HP [‡] Intek [™] engines	691915	5042, 5054 includes rewind tool		



DEFLECTORS - LOCKNUTS - EXHAUST ELBOWS 8-1

Standard Muffler Deflectors

Engine Models	Side out Deflector	PPPP Direct out Deflector	QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ	କୃତ୍ୱକ Louvered Deflector	Side out Deflector
60000, 80000, 90000, 100000, 110000, 120000	393760	397931	None	396548	393756
85400, 110400, 111400, 115400, 117400, 120400, 121400, 123400, 138400, 185400	796956	395700	393758	None	None
*130000, 170000, 190000	796956	395700	393758	None	None
220000, 230000, 235400, 240000, 245400, 250000, 280000, 290000, 300000, 311700, 320000, 350000, 380000, 400000, 420000	795036	396903	795038	None	None

^{*}Shallow side out deflector 494423 required with some model 130000 guards (see page 10-8, 10-9). Deflectors will not fit over spark arrester.

Standard Muffler Locknuts & Exhaust Elbows

Engine Models	National Pipe Thread	Cocknut	450	900	45° Street Elbow	90° Street Elbow
60000, 80000,	4 (011 (40	(01700	N.	N	None	91943
90000, 110000	1/2" (13 mm)	691720	None	None	690291	(60000 only) 91943
100000, 130000, 170000, 190000, 400000, 420000	3/4" (19 mm)	690453	None	692835	94089	94092
220000, 230000, 240000, 250000, 280000, 320000	1" (25 mm)	691808	91415	91296	None	690281



8-2 EXHAUST

Vanguard[™] model 50032

En _i Acces

Muffler	Guard		Deflector	Spark Arrester	Bracket
715948	711532	? 710074	715230	Not Available	Not Available

Models 60000, 80000, 90000 & 110000 horizontal crankshaft (1/2" or 13 mm NPT)

Muffler	Guard	Deflector	Spark Arrester
493288 Oval Lo-Tone™	690664 © 691186 690194 690789	(see page 10-3)	
691360 Super Lo-Tone™	398160 (model 82000 with float carburetor) 490571 (model 82000 with pulsa-jet carburetor)	397931 (this deflector only with these guards)	398067

Vanguard[™] model 85400 horizontal crankshaft

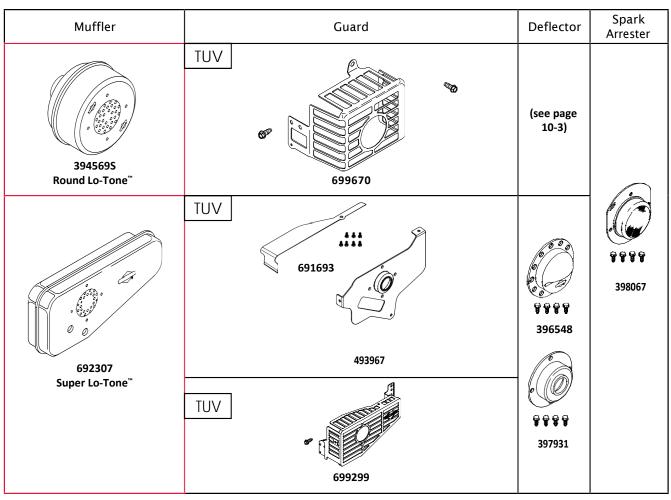
Muffler		Guard	Deflector	Spark Arrester	Bracket
715487 Lo-Tone™	710074	710332	715230	715491	715287



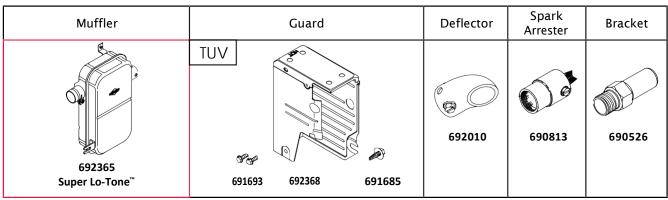
Vanguard™ models 115400 & 117400 horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester	Bracket
	710074			
715435	710333	715230	ॐ 715491	715319

Models 90000, 10A900 & 110000 vertical crankshaft (1/2" or 13 mm NPT)



Model 93400 horizontal crankshaft

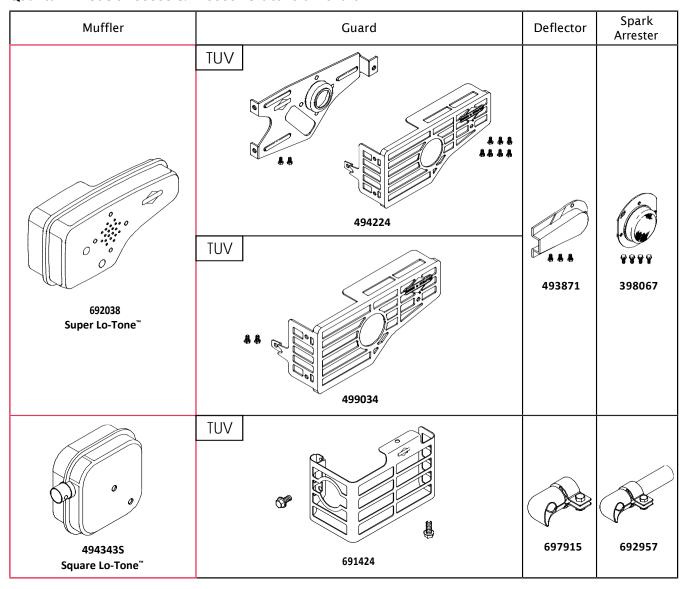




Model 99700 vertical crankshaft

Muffler	Guard	Deflector	Spark Arrester
494717 Super Lo-Tone™	TUV 494719	(Not Available)	493662

Quantum® models 100000 & 120000 vertical crankshaft





Intek[™] models 110400, 111400, 121400 & 123400 (single cylinder) horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester	Bracket
7/8" Opening 691108 694429	691665 697818	692010	690813	699204 691893 691665 692237 699232

Intek[™] models 110400, 111400, 120400 & 121400 AFTER DATE CODE 98071900 & 123400 (single cylinder) horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester	Bracket
691665	693624	# # # 796956	691685 692595	691685
693593	693583	395700		699229

Vanguard™ model 118400 (single cylinder) horizontal crankshaft

NOTE: Muffler brackets are for optional use on high vibration applications.

Muffler	Guard	Deflector	Spark Arrester	Bracket
711239	711243 insulator 711241	(not available)	(not available)	715861

Intek[™] models 121400, 123400, 124400, 126400, 127400 & 128400 (single cylinder) horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester	Bracket
1-3/8" Opening 699231	(not available)	697816	790153	(not available)



Intek™ models 121400 (single cylinder) horizontal crankshaft (before date code 98072000)

Muffler	Guard	Deflector	Spark Arrester	Bracket
692580	(not available)	796956	(not available)	692548

Intek[™] models 110600 & 126600 (single cylinder) vertical crankshaft

Muffler	Guard	Deflector	Spark Arrester	Bracket
694248 Muffler (Used After Code Date 99030700). Note: 692275 Muffler (Used Before Code Date 99030800).	691466 Muffler Guard (Used After Code Date 99030700). Note: 692984 Muffler Guard (Used Before Code Date 99030800).	497682 497915	398067	(not available)

Intek[™] models 111600 & 121600 vertical crankshaft

(not available)	Muffler	Guard	Deflector	Spark Arrester	Bracket
699769 695593				692957	(not available)



Intek[™] models 111600 & 121600 vertical crankshaft (continued)

Muffler	Guard	Deflector	Spark Arrester	Bracket
699769	695593	397931	692957	(not available)

Intek[™] models 12A400, 12B400, 12C400 & 12D400 (single cylinder snow engine) horizontal crankshaft

Muffler	Guard	Adapter	Spark Arrester	Bracket
699511	(not available)	691665 692237 691893 699232	(not available)	691685 695734

Professional Series[™] models 121Q00, 121S00

Muffler	Guard	Deflector	Spark Arrester	Bracket
	3870			(not available)
796495	796494	692010	690813	



Model 130000 horizontal & vertical crankshaft (3/4" or 19 mm npt)

Muffler	Guard	Deflector	Spark Arrester
390918S Lo-Tone	691681 690788 (vertical shaft) TUV 692198	- (see page 10-3)	
692304 Lo-Tone [™]	690367 690625 (model 130000 with pulsa-jet carburetor)		
Sup 691969 e er Lo-Ton	398161 (model 132400 with float carburetor)	(these deflectors only with these guards) 494423 (shallow side out deflector)	399541
ei Lo-ioli	(model 130000 with pulsa-jet carburetor)	395700	
496892 Round Lo-Tone™	498257	493662 (this deflector only with this guard)	



Model 133400 horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester	Adapter
692006 Super Lo-Tone™	TUV 691693 690811 (691432 for Type No. 0700)	692010	690813	691689 690812 692237

Vanguard[™] model 138400 horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester	Bracket
715487 Lo-Tone™	710074	715230 (Also see Page 10-4)	715491	715287



Model 185400 horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester	Bracket
715523 Lo-Tone™	710023	715230 (Also see Page 10-4)	715491	715495

Models 170000 & 190000 horizontal & vertical crankshaft (3/4" or 19 mm npt)

Muffler	Guard	Deflector	Spark Arrester	Adapter
691951 Lo-Tone [™] (remote)	(not available)	(see page		
692304	TUV 691988 690858	10-3)	399541	(not required)
Lo-Tone [™]	(horizontal shaft) (vertical shaft)			
494221 Super Lo-Tone™	TUV 494868 (horizontal shaft)	395700 (this deflector only with this guard)		



Model 190000 horizontal crankshaft (3/4" or 19 mm npt)

Muffler	Guard	Deflector	Spark Arrester	Adapter
497141 Super Lo-Tone™	TUV 691447	395700 (this deflector only with these guards)	817483	497140
498984S Super Lo-Tone™	4945 Super Lo-T (horizontal shaft – includes special RAF all mounting hardware – this 39376	one [™] Kit reduced after fire		is a second of the second of t



Intek[™] models 20A400, 20B400, 20C400, 20D400, 20E400, 20F400 & 20G400 horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester
794694	795035		
698160		(not available)	(not available)
698134	608125		
794695	698135		

Intek $^{\text{m}}$ models 201400, 202400, 203400, 204400, 205400, 206400 & 207400 (single cylinder) horizontal crankshaft; all after date code 020120XX

Muffler	Guard	Deflector	Spark Arrester
794949	795035	795036	794945

Intek $^{\sim}$ models 201400, 202400, 203400, 204400, 205400, 206400 & 207400 (single cylinder) horizontal crankshaft; all before date code 020121

Muffler	Guard	Deflector	Spark Arrester
			9919
794949	795035	795036	794945



Models 21A400 & 210400 horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester	Backet
794694	795035			
698160	698135			
		795036	(not available)	(not available)
794949	795035			

Models 21A800, 21A900, 21B900, 212700 and 212900 vertical crankshaft

Muffler	Guard	Deflector	Spark Arrester	Bracket
796000	(not available)		(not available)	698941 698941 794661
4989845	795036	795036		(not available)



Models 220000 & 250000 horizontal & vertical crankshaft (1" or 25 mm npt)

Muffler	Guard	Deflector	Spark	Adapter
691874 Square Lo-Tone™ 497470 Super Lo-Tone™	TUV 691874 Square Lo-Tone TUV 690648 (horizontal shaft) TUV 691404	795036 (this deflector only with these guards) (see Page 10-4)	Arrester 794945 For Model 25 use 817483	(not required)
391569S Standard (8" Length)	(not available)			392700
498984S Super Lo-Tone™				a a a



Models 230000, 240000 & 320000 (cast iron) horizontal crankshaft (1" or 25 mm npt)

Muffler	Guard	Deflector	Spark Arrester	Adapter
399635 Square Lo-Tone™ (remote)				394584
299477S	(not available)	(see page 10-3)	794945	
Standard (7" Length)				
				392700
393232S Standard (11" Length)				

Vanguard[™] models 235400 & 245400 horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester	Bracket
715894 Lo-Tone [™]	710074	(not available)	794945	715422



Model 280000 L-Head vertical crankshaft (1" or 25 mm npt)

Muffler	Guard	Deflector	Spark Arrester	Bracket
691874 Square Lo-Tone™	TUV 692361 (includes deflector)	795036	794945	(not required)
690850 Super Lo-Tone 3915695 Standard (8" Length) 4960225 Super Lo-Tone 4960225	(not available)	(See Page 10-4)	(not available)	698941 698941
495882 Super Lo-Tone™		(not available)	(not available)	794661



Models 28AH00, 28CH00 & 31G700 OHV vertical crankshaft

Muffler	Guard	Muffler Bracket	Deflector	Spark Arrester	Adapter
794694	(not available)	(not available)	795036	(not available)	794661

Model 28N700 OHV vertical crankshaft

Muffler	Guard	Muffler Bracket	Deflector	Spark Arrester	Adapter
4989845	(not available)	(not available)	6000		(not available)
496022S	(not available)	(not available)	795036	794945	
495882	(not available)	(not available)	(not available)	(not available)	794661
495805S	(not available)	(not available)	(not available)	(not available)	



Models 28P700, 28Q700, 311700 & 312700 OHV vertical crankshaft (1" or 25 mm npt)

Muffler	Guard	Muffler Bracket	Deflector	Spark Arrester	Adapter
690850 Super Lo-Tone™	(not available)	691204 691676 690297 691678	(see page 10-3)	794945	698941 698950 496750
496022S	(not available)	(not available)	(see page 10-3)	(not available)	698941 698941 794661



Vanguard[™] models 290000, 300000 & 350000 horizontal crankshaft

Muffler	Guard & Heat Shield	Deflector	Spark Arrester
690906 (cyl #1 side outlet, starter motor side) 691562 (cyl #2 side outlet, oil filter side)	691571 692067	495518	808361
690931 (cyl #1 side outlet, starter motor side)	(not available)	808393	(not available)



Vanguard[™] models 290000, 300000 & 350000 horizontal crankshaft

Muffler	Manifold	Muffler Bracket	Spark Arrester
690898	691499* (starter motor side – cannot be installed on engine equipped with starter motor because of interference)	692067 690943 690944 692056	Deflector (see page 10-3)
692099		692067	
690898	692061* (oil filter side – if oil filter interferes, install 808033 oil filter adapter kit)	692056 25 25 691513 (oil filter side)	
692099 (do not use on models 351400 or 351700)	691499* (starter motor side – cannot be installed on engine equipped with starter motor because of interference)	(integral to mostflow)	794945
690898 692056 807742 (do not use on models 351400 or 351700)	692061* (oil filter side – if oil filter interferes, install 808033 oil filter adapter kit)	(integral to muffler)	
OEM supplied	691501* (oil filter side exit) 691502* (starter side exit)		

^{*}Note: Manifolds on this page require (2) 691613 gaskets and (4) 691902 mounting screws. No guards are available.

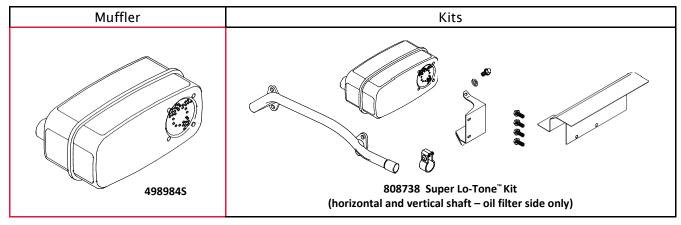


Vanguard[™] models 290000, 300000 & 350000 horizontal & vertical crankshaft

Muffler	Kits	Deflector	Spark Arrester
807953 Super Lo-Tone™	807969 Super Lo-Tone Kit (vertical shaft – oil filter side only)		
498984S Super Lo-Tone™	807752 Super Lo-Tone™ Kit (horizontal and vertical shaft – oil filter side only)	(see page 10-3)	794945

NOTE: Manifolds on this page require (2) 691613 gaskets and (4) 691902 mounting screws.

Vanguard[™] models 380000 vertical & horizontal crankshaft





_Vanguard™ models 380400 & 381400 horizontal crankshaft

Muffler	Guard	Deflector	Spark Arrester	Bracket
808705	(not available)	(not	(not	(Integral to
806425 (starter motor side exit)		available)	available)	muffler)
808896	(not available)	(not	(not	(Integral to
806425 (oil filter side exit)		available)	available)	muffler)
808911	(not available)	(not	(not	(Integral to
806425 (center outlet exit)		available)	available)	muffler)

Muffler	Manifold	Deflector	Spark Arrester	Bracket
OEM supplied	808909	(not	(not	(not
	(starter motor side exit)	available)	available)	available)
OEM supplied	808908	(not	(not	(not
	(oil filter side exit)	available)	available)	available)

Vanguard[™] models 380700 & 381700 vertical crankshaft









Models 400000 & 420000 vertical & horizontal crankshaft (3/4" or 19 mm npt)

Muffler	Guard	Deflector	Spark Arrester	Adapter
399635 Square Lo-Tone" (remote) 4913075 (horizontal shaft) 4913195 (vertical shaft) 690838 (vertical shaft – ducted) Super Lo-Tone"	(not available)	(see Page 10-4)	794945	691975 (#1 cyl.) 691365 (#2 cyl.)

Intek[™] models 405700, 406700 & 407700 vertical crankshaft

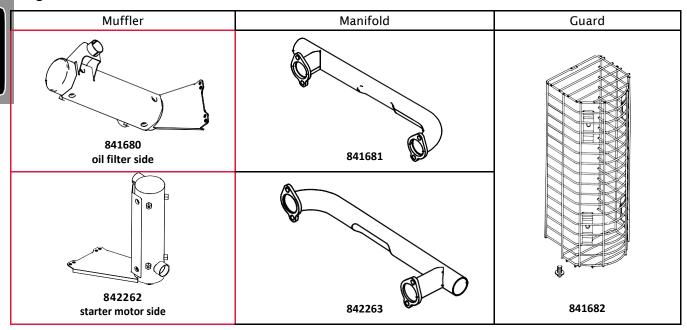
Muffler	Guard	Deflector	Spark Arrester	Bracket
692120	(not available)	(not available)	(not available)	(Integral to muffler)

Intek[™] models 445700 & 446700 vertical crankshaft

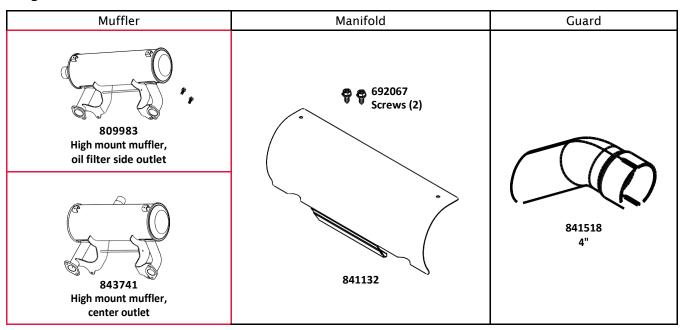
Muffler	Guard	Deflector	Spark Arrester	Bracket
696226	(not available)	(not available)	(not available)	(not available)

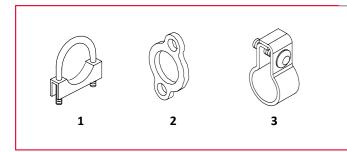


Vanguard[™] model 540000 low mount muffler



Vanguard[™] model 543400





Muffler Clamps

- 1. Used on Models 540000 & 610000, ID 1.62", Part # 841968
- 2. Used on Models 3504, 3507, 3514, 3517, ID 29MM, Part # 690898
- 3. Used on Models 19, 25, 35 Horizontal, ID 1.25", Part # 691956



AIR CLEANERS 8-25

	Dual Element Air Cleaner Kit	For 7 and 8 Gross HP ¹ horizontal crankshaft engines with 2-piece flo-jet carburetors only,	393459
	Dual Element Air Cleaner Kit	For 10 and 11 Gross HP ¹ vertical crankshaft engines with 1-piece flo-jet carburetors (pre world class carburetors only). Features larger capacity automotive type paper cartridge and oil-foam precleaner for extended life. NOTE: Studin this kit has a #10-32 UNF-2A thread.	399644
	Remote Air Intake Kits	For Quantum® power engines (including mounting hardware). Mount intake head at a remote location, e.g., handle bar. (Does not include air cleaner element), NOTE: Do not use these remote air intake kits on engines built after code date 95073100.	498204
	Remote Air Intake Kit Parts	Tubing kit (3 ft/.9m hose and 2 hose clamps, part #94489).	494345
	Air Cleaner Base	Models 294400, 303400 and 350400 Vanguard™ V-Twin engine remote air cleaner. (Remote parts not supplied by Briggs & Stratton.) NOTE: Do not use these remote air intake kits on engines built after code date 95073100.	842830
	Two Stage Centrifugal Air Cleaners	Housing & filter assembly, 90 degree end, for 2 & 3 cylinder L/C engines, Part # 825118 Housing & filter assembly, straight end, for 2 & 3 cylinder L/C engines, Part # 825117 Filter only for assemblies 825117 and 825118, Part # 820263 Housing & filter assembly for 31 Gross HP [‡] (540000) air-cooled V-Twin, Part # 809670 Filter for 809670, Part # 841497 Safety filter for 809670, Part # 821136	825118
a nonemina de la nomembra de la nome	Air Filter Restriction Indicator	For all Vanguard BIG BLOCK™, small block, that use the Donaldson® Air Filtration System and 3 cylinder L/C diesel engines.	843024
	Rain Cap		809907



	Fuel Tanks for Remote Mounting	FuelTankCapacityFuelTankandCapMounting Straps (2 Required) 4 qt. (3.8 L) Part # 290816 (metal) Part # 291367 or Part # 691993 (plastic) 6 qt. (5.7 L) Part # 291488 (metal) Part # 691937 (H 6.2", W 5.45", L 10.75") 8 qt. (7.5 L) Part # 292415 (metal) Part # 691937 (H 6.2", W 5.45", L 14.37")	
	Oil Gard Kits	Oil Gard automatically stops the engine if the oil level is too low. It can be added to I/C® and Vanguard™ engines equipped to receive it. Models (horizontal crankshaft) For 5 Gross HP¹ thru 11 Gross HP equipped to receive Oil Gard, Part # 398182 For 9 Gross HP¹ Vanguard™, Part # 492697 NOTE: Magnetic oil drain plug recommended with Oil Gard	
2 3 4 5 6 6 7 8 9 -	Dipsticks	 Be sure dipsticks fit on your application Models 110400, 121400, 123400, Part # 693617 Models 110600, 111600, 120600, 121600, 122600, 126600, Part # 692047 Models 310700, 311700, Part # 496415 Models 405600, 406700, 445700, Part # 499602 Models 120400, 204400, 205400, Part # 697689 Models 303400, 350400, 381400 (after 98053100), Part # 693175 Models 310000, Part # 699908 Models 50032, Part # 715588 Models 121Q00, 121S00, Part # 796501 	
	Valve Cover Oil Fill	Valve cover oil fills are available for Vanguard™ V-Twin Models 30, 35, and 38 horizontal crankshaft engines. Valve cover oil fill, if engine is not equipped with fuel pump, Part # 843749 Valve cover oil fill, if engine is equipped with fuel pump, Part # 690910 Oil fill cap (before assembly, cut dipstick from cap, if equipped), Part # 809500	
	Oil Minders	Gives visual indication of "safe" oil level with a touch of a finger. Most 3 Gross HP thru 12 Gross HP ¹ vertical crankshaft engines, Part # 692939 Most 2 Gross HP thru 8 Gross HP ¹ horizontal crankshaft engines, Part # 298858 Most 9 Gross HP thru 16 Gross HP ¹ cast iron cylinder horizontal crankshaft engines. Part # 298860	592239



LUBRICATION 8-27

Remote Mounting Oil Filter Kits	For Vanguard™ V-Twin engines and Opposed Twin II™ engines equipped with full pressure lubrication. Length of Hoses: 18" (48 cm), Part # 492061 30" (76 cm), Filter not included, Part # 492062 To order parts separately: (2) 18" hoses, Part # 494724 (2) 30" hoses, Part # 494725 Oil filter kit without hoses, Part # 495244 NOTE: Opposed Twin II™ requires adapter kit 492675. Vanguard™ requires adapter kit 492687	
Oil Filter Adapter Kits	Opposed Twin II™ engines (includes spacer), Part # 492675 Vanguard™ V-Twin engines, Part # 492687 NOTE: Adapter has provision to receive oil pressure switches.	
Oil Drip Tray	Models 540000 and 61000 Bolts for drip tray, Part # 807435	809334
Oil Filter Adapter	Oil filter adapter kit re-locates oil filter on Vanguard™ V-Twin horizontal crankshaft engines when muffler is mounted on oil filter side of engine (see page 10-20). Use mounting hardware from original adapter. NOTE: Adapter has provision to receive oil pressure switches.	808033
Oil Pressure Switch	Oil pressure switches activate a warning light if oil pressure drops to an unsafe level. Available for V-Twin engines and Opposed Twin II™ cylinder engines equipped with full pressure lubrication and oil filter. This is a normally closed switch. 2 PSI, Part # 690233 3-5 PSI, Part # 491657\$ 9-13 PSI, Part # 694115 All Switches are 1/8 x 27 NPTF.	
Oil Drain Plugs & Fittings	A magnetic oil drain plug is recommended with Oil Gard. 1/2 turn oil drain fitting makes oil changes easier. Models (horizontal crankshaft) 1. 5 Gross HP [‡] , 1/4 x 18 NPTF, Part # 691663 2. 7 Gross HP [‡] thru 11 Gross HP, 3/8 x 18 NPTF (magnetic), Part # 690289 3. 5 Gross HP [‡] and under, 1/4 x 18 NPTF (1/4" I.D. Dia.), Part # 492030 4. Above 5 Gross HP [‡] , 3/8 x 18 NPTF (1/2" I.D. Dia.), Part # 492031 5. Vanguard™ single cylinder oil drain extension, Part # 715715 6. Vanguard™ Twin, 3/8 x 18 NPTF, Part # 690946 7. Model 12 horizontal, 1/4 x 18 NPTF, Part # 691686 8. Intek™ V-Twin, 1/2" 3/8 x 18 NPTF recessed square, Part # 691680 9. 2 cylinder liquid-cooled Vanguard™ 540000 & 610000, M14 x 1.5 thread, Part # 807392	



8-28 ELECTRIC STARTERS

Electric Starter	Single cylinder starter for aluminum ring gear	497595
Electric Starter	Opposed twin cylinder tractor starter	497596
Electric Starter	Fits Model 21 & 28 single cylinder starter for steel ring gear	593934
Electric Starter Kit	Used on Model 15 Snow horizontal engines which are already equipped to receive an electric starter	796238
Electric Starter Kit	Used on Model 20/21 Snow horizontal engines which are already equipped to receive an electric starter	795909
Electric Starter Kit	Used on model 12/15 Snow engines.	798884
Electric Starter Kit	Used on model 12/15 Snow engines.	799038
Electric Starter Kit	Used on Model 11 (175cc) Vertical 775/Professional Series [™] engines, Model 12 (190cc) Vertical 850/875/ Professional Series [™] engines, Model 14 (223cc) Vertical 950-1000 Series [™] engines	799241



MISCELLANEOUS 8-29

Ammeter & Hour Meter	Ammeter by Stewart Warner, scale: 20-0-20 amps, Part # 295158 Hour meter by Hobbs, requires 12V battery, Part # 100025 NOTE: Both meters include mounting hardware.	
Stub Shaft Kit	For models 290000 and 380000, horizontal shaft Vanguard™ twin cylinder engines Kit includes: (1) Stub shaft (4) Screen Spacers, Part # 691500 (1) Alignment Pin, Part # 841581 (1) Rotating Screen, Part # 841582 (1) Hex Nut, Part # 690887 (1) Rotating Screen, Part # 494439 (2) Hex Head Screw, Part # 691088 (4) Recess Screw, Part # 841441 (4) Pan Head Screw, Part # 691647	841580
Stub Shaft Kit	For model 540000 and 61000 V-Twin. Rotating screen, Part # 843429 Stub shaft: diameter 1-1/8", length 148 mm.	841304
Noram™ Reduction Gearboxes	Engine Noram™ Adapter Noram™ Model # Kit # Gearbox # 196400 13500024 61100 / 21100+ 235400 13500015 61100 / 21100+ 245400 13500015 61100 / 21100+ 138400 1" dia. 12800010 61100 6-1+ 138400 12800010 21100 2-1+ 185400 N/A 61100 6-1+ 185400 N/A 21100 2-1+ NOTE: All engines must have a flange mount side cover. Noram output shaft size: diameter-1", length-3", keyway-1/4". + 1" dia. keyway crankshaft. Contact your Briggs & Stratton Integrated Distributor to order NORAM: 4360 N. Green Bay Road Milwaukee, WI 53209 (414) 267-4000	196400
Adapter Spacer Kit	For raising all Models 20 and 21 crankshaft height to the level of Model 190000 and 250000, adapters are 1" high and 1-1/8" wide.	695154



8-30 MISCELLANEOUS

Stub Shaft And Alignment Pin Combinations**

Standard Length 4.750 Stub Shaft

Standard Vanguard™ V-Twin

Model #	Stub Shaft Kit	Alignment-	
Currently (old stub shaft)	Service Part #	Pin Part #	Comments
2904, 2944, 3034, 3044(GF)	841580	841581	
3504, 3544(GF), 3804, 3814, 3844(GF)	841580	none	No alignment pin used because it will not allow stub shaft to seat on flywheel properly.
Replacing 262949 & 805613 when	available (new stub sha	ıft)	
2904, 2944, 3034, 3044(GF)	841580	841581	This combination must be used together. This set up insures better alignment than the old stub shaft and alignment pin listed above.
3504, 3544(GF), 3804, 3814, 3844(GF)	841580	none	No alignment pin because it will not allow stub shaft to seat on flywheel properly.
Cooler Cleaner Vanguard™ V-Twi	1		
Currently (old stub shaft)			
2954, 3054, 3094(GF)	841580	841581	
3564, 3594(G), 3854, 3864, 3894(GF)	841580	841581	Cooler cleaner flywheel mounting boss was eliminated therefore alignment pin needed.
Replacing 262949 & 805613 when	available (new stub sha	ıft)	
2954, 3054, 3094(GF)	841580	841581	This combination gives better alignment than old set up.
3564, 3594(GF), 3854, 3864, 3894(GF)	841580	841581	This combination gives better alignment than old set up.

Longer Stub Shaft 5.439" Long - Currently Now Available

(Primarily used on 35/38 cooler cleaner due to deeper blower housing)

Cooler Cleaner Vanguard™ V-Twi

	Stub Shaft Kit Service	Alignment-	
Model No.	Part #	Pin Part #	Comments
3564, 3594(GF), 3854, 3864, 3894(GF)	842655	841581	Longer stub shaft

^{*}Available as kit only



^{**}As of 8-9-05

BEARING (MAIN) SERVICING 12-1

Reamer - Counterbore	For installing DU bearing in PTO bearing: Horizontal Crankshaft Models 140000, 170000, 190000. For installing DU bearing in MAG. bearing: Vertical Crankshaft Engine Models 171000, 191000.	19281*
Reamer Guide Bushing "MAGNETO"	Use with 19096 pilot, 19179 bushing driver and 19227 cylinder support.	19282*
Bearing Driver	For replacing magneto side main bearing on V-Twin Vanguard™ engines built before 97050100. Use with 19227 Cylinder Support Tool.	19349
Bearing Driver	For replacing magneto side main bearing on Vanguard™ engine Model 161400, 330000 V/Shaft. Use with 19351 Cylinder Support Tool.	19350
Cylinder Support	For replacing magneto side main bearing on Vanguard™ engine Model 161400, 330000 V/Shaft.	19351
Main Bearing Plug Gauge	Checking magneto bearing for wear - Vanguard™ engine Model 161400.	19377*
Main Bearing Plug Gauge	Checking magneto and PTO bearing for wear - Vanguard™ engine Models 260700, 261700.	19378*
Main Bearing Plug Gauge	Checking magneto and PTO bearing for wear - V-Twin Vanguard™ engines.	19380
Bearing Driver	For replacing magneto side main bearing on V-Twin Vanguard™ engines built after 97043000. Use with 19227 Cylinder Support Tool.	19450



12-2 CAM GEAR BEARING SERVICING

19318 PULLER SCREW 15395 PULLER STAND OFF 19396 PULLER STAND OFF	Main Bearing Tool Kit	For Servicing Engine Models 85400, 115400, 185400, 245400. Kit Includes: 19139 Puller Nut 19398 Puller Stud 19318 Puller Screw 19401 Driver 19454 Support 19406 Puller Nut 19320 Driver 19408 Puller Stand Off 19394 Support Driver 19440 Support Driver 19395 Pilot Nut 94814 Nut 19396 Pilot 690582 Washer 19397 Adapter/Driver Note: Each tool part number can also be ordered separately.	19407
5	Cam Bearing Plug Gauges	19164 Checking cam gear bearings for wear - most engine models. 19383* Checking cam gear bearings for wear - Vanguard™ engine Models 161400, 260700, 261700. 19384 Checking cam gear bearing for wear - Mag. side V-Twin Vanguard™ engines. 19386 Checking cam gear bearing for wear - PTO side V-Twin Vanguard™ engines. 19387* Checking cam gear bearings for wear - Engine Models 97700, 99700.	19164
	Puller, Camshaft Bearing	For removing camshaft bearing on Vanguard™ 3-cylinder liquid-cooled engines.	19421
	Driver, Camshaft Bearing	For installing camshaft bearing on Vanguard™ 3-cylinder liquid-cooled engines.	19422
	Magneto Bearing Puller/ Installer	This tool is designed for Magneto main bearing removal and reinstallation of the 54 and 61 cubic inch Big Block™ engines. It is essentially a hand operated press. The bearing is pulled into the block as it is staked from the inside. Installation is the reverse, as an oil groove needs to be aligned from the inside. To use, a mandrel locks into the bearing. The bolt acts as a lead screw and pulls the mandrel and the bearing into a cup machined into a threaded fixture that straddles the bearing recess. For installation, another threaded fixture is substituted for the cup and the new bearing is pulled into position. Simply tighten all the way and the bearing will be brought to the proper recess by the design of the tool.	19592



CARBURETOR SERVICING 12-3

Screwdriver - Carburetor Jet - small	For removing most carburetor jets.	19061
Screwdriver - Carburetor Jet - large	For removing most carburetor jets.	19062
Torx® E5 Socket	For removing and installing carburetor mounting studs on engines equipped with Torx® drive intake manifolds such as the Intek™ V-Twin engines.	19455
Torx®Driver	For installing tamper-proof screws in governor paddle for Vanguard™ 3-cylinder liquid-cooled gasoline engines.	19445
Tachometer Adaptor	use of Digital Tachometer 19389 on Vanguard'''	
Digital Tachometer & Hourmeter For use with Vanguard™ 3-cylinder liquid- cooled diesel engines with 6mm diameter fuel lines. This also includes a permanent transducer (not pictured) to be attached to the 6mm fuel line.		795195
16mm Carburetor Socket Remove and install main jet housing on In V-Twin engines, Extended Life Series [™] for Model 440000		19459
Primer Bulb Removal Tool	retainer on engines equinned with Pulsa-Prime	
Primer Bulb Installation Tool	Easily installs new primer bulb and retainer on Pulsa-Prime carburetors.	19462
Fuel Line Removal Tool	and that it are the factor and the f	



12-4 CARBURETOR SERVICING - ELECTRICAL TESTING

IRWIN S	Screwdriver Set	The Briggs & Stratton Power Products 7.0 kW Standby Generator comes from the factory with provisions to change the mixer jet to allow use with natural gas or liquid propane. All that is required to make the conversion is the provided jet and this 19570 screwdriver set. Not just any screwdriver will do. The blade must be thin to fit the jet slot - approximately .040" (1mm) - but wide enough to reach across the jet. At the same time it cannot be too wide or it will shave the peaks off the threads of the jet cavity. Also makes an excellent handle for 19442 star bits.	19570
	T40 Plus Torx® Bit	This Plus Torx® bit design is to be used for the Model 31 & 33 rod bolts. If the technician tries using a standard T40 Torx bit on these rod bolts, they will have a real potential of stripping the head of the bolt.	19608
	Otoscope	The use of the otoscope offers the technician the ability to see into small passages and jetting of carburetors. The otoscope offers 2X minimum magnification and a push button switch to activate the bulb to ensure that the technician will not forget to turn off the light causing the battery to be drained.	19607
ST. S.	Amp Fuses	19449 15 Amp Fuse 19571 11 Amp Fuse Recently, our Fluke® Digital Multimeter supplier substituted a Model 73 Series III for the Model 73 Series II meter we'd been buying for years. The meter specifications were the same so the change passed our quality audit with no problem. What came as a surprise a short time later is the Series III meter uses an 11 amp fuse instead of the 15 amp used by the Series II. It is never a good idea to replace a fuse with one that is incorrectly rated for the meter and damage may result. If you have a Fluke Series II Multimeter, you need a 15 amp fuse, part number 19449. If you have a Series III Multimeter, you need an 11 amp fuse, part number 19571.	19449 19571



FLYWHEEL HOLDER/PULLER 12-5

	400 Amp AC/ DC Clamp Style Digital Multi- Meter	This new Multi-Meter is feature packed and safer to use for amperage testing than standard probe style meters. It has the following capabilities for measuring: • AC/DC Volt - with a Cat III 600 Volt Safety Rating • AC/DC Current (Amp) • Resistance (Ohms Ω) • Continuity & Diode Testing - with audible signal • Capacitance & Frequency (Hz) or % Duty Cycle • Temperature °C or °F (-22 to 572°F/-30 to 300°C), Additional features: • Auto Off • Auto/Manual Ranging • Data Hold • Backlight • Zero Button • Overload protection for all ranges • Over range and low battery indicators Comes complete with test leads, type K bead wire thermocouple probe, case, two AAA batteries and instruction booklet.	19602
bunta'in	PowerLink® Test Box	Use with 19602, 19581, 19464 Digital Multimeters for testing AC output on the PowerLink® Stators	19528*
CONTROL SERVICES (SERVICES OF SERVICES OF	Capacitance- Frequency Meter	Used for checking the frequency (Hz) on a running generator. Flip switch on meter to "FREQ", use plug-in, and plug into AC outlet on generator. Compatible with 50 or 60 Hz generators To test a capacitor, flip switch to "CAP" and touch probes to terminals on capacitor and the capacitance will be displayed. Capacitance range is 10 to 99 microfarads.	19602*
6	DC AMP Shunt	An improved version of a valuable diagnostic tool. Color coded receptacles hold digital multimeter leads securely while testing. This tool works with any digital multimeter with a millivolt scale.	19468
	Flywheel Pullers	19069 - small, hole distance 1-5/8" or 1.630" (41.275 mm) 19165 - medium, hole distance 2" or 2.010" (50.8 mm) 19203 - large, hole distance 2-13/16" or 2.820" (71.4375 mm)	



12-6 FLYWHEEL HOLDER/PULLER - IGNITION

	Flywheel Holder	For removing and installing flywheel on Vanguard™ 3-cylinder liquid- cooled engines.	19418
	Flywheel Strap Wrench	For holding flywheel while removing and torqueing flywheel nut on all engine models. Note: Replacement strap is available separately. Order Part # 19448	19433
مرحل	Flywheel Puller - Micro Engine	For removing flywheels on Micro engine. Includes driver and an adapter for clutch drive engines	19538*
	Flywheel Puller - Motor Sports	This flywheel puller is designed to work specifically with Billet aluminum motor sports flywheels only	19584
	Rotor Puller	This tool is designed to remove the rotor from the engine crankshaft taper on the new 18/20kW Standby Generator System • Use repair manual 277528GS for detailed instructions on how to safely remove the rotor with this pulley kit	19590
	Flywheel Puller - Powerlink®	Required when removing and installing flywheel on engines equipped with the PowerLink® systems. Also works on most other flywheels	19534*
	Plug Gauge	Servicing breaker point plunger hole	19055
	Bushing Driver	Servicing breaker point plunger hole	19057
	Ignition Tester	Used to test all ignition coils except Vanguard™ 3 L/C gas engines. For the Vanguard™ 3 L/C gas engines, please see 19400 Spark Tester.	19368
	Spark Tester	Special Air Gap of .400" (10 mm) for use on Vanguard™ 3-cylinder liquid-cooled engines.	19400
	Spark Plug Wrench For removing 13/16" and 3/4" hex head spark plugs. Wrench length 5-1/2" (14 cm).		89838S



BRIGGS&STRATTON

The 19576S spark plug wrench has been modified to fit a wider variety of applications. The wrench, sized to fit 13/16" spark plugs on one side and 5/8" spark plugs on the other has been stretched from 5-1/2" to a full 8" (14 cm-20 cm). This change was driven by the longer reach needed to access spark plugs on many overhead valve engines. To gain better torque in removing the plug, the handle is longer as well. The blister pack part number is 5402.		19576S
Driver, Oil Seal	For installing timing gear cover oil seal on Vanguard™ 3-cylinder liquid-cooled engines.	19423
Driver, Oil Seal	For installing rear oil seal on Vanguard™ 3-cylinder liquid-cooled engines.	19424
Prop Shaft Fixture	Holds propeller shaft securely for easy removal of sliding clutch roll pin. For replacement pins order 19558.	19555*
Tapered Socket	1-1/4" tapered hex. For removing and installing carrier nut on outboard gear case. Holds securely without damaging nut.	19557*

OIL SEAL - OUTBOARD SERVICING 12-7

12-8 PISTON & PISTON RINGS SERVICING

Piston Ring Compressor	For engines 5 HP [‡] and below, such as Model 6, 8, 9, 10, 12, 13	19070
Piston Ring Compressor	For engines above 5 HP [‡] . Instructions for Operating Piston Ring Compressors After placing rings in grooves on piston, enclose piston and rings in compressor. Make certain rings are FULLY entered IN GROOVES. Tighten compressor by turning handle to right until rings are compressed sufficiently to enter cylinder. After tightening compressor the handle may be removed. The automatic friction brake holds the compressor at the desired tension. Friction brake may be adjusted by turning the screws on the side of the compressor. Turn right to increase. Turn left to reduce tension. In loosening compressor turn handle SLOWLY to left. If loosening too rapidly tension band may be damaged. Keep compressor clean. Dirt or grit between the tension band and compression band will damage the former. USE PLENTY OF OIL. NOTE: positioning the ring compressor on the cylinder with the 3 dimples	19230
Ring Expander	For removing and installing piston rings. Minimized ring distortion and breakage. All engine models.	19340
Piston Pin Fixture For removing and installing piston pin on Vanguard™ 3-cylinder liquid-cooled gasoline engines.		19419
Mity Vac Pressure/ Vacuum Pump	Check carburetor inlet needles and seats for leakage. Check pressure switches. Check dash pot pull of on 3 L/C choke.	19493
Digital Crankcase Vacuum Tester	Extremely accurate and simple tool for measuring crankcase vacuum, or natural gas and LP fuel pressure for home generators. Check crankcase vacuum with engine running at top no load speed.	19495



PRESSURE/VACUUM TESTING 12-9

Engine Test Fittings	What you need now is a quick and easy way to firmly attach these tools to an engines crankcase. All you need to do is gather an assortment of various engine fill caps and dipsticks and an equal number of 691764 barbed fuel fittings. Listed below is an assortment of dipstick and oil fill cap part numbers. First, if using a dipstick remove it from the cap. Determine the best location to drill a hole using a letter "Q" drill bit. Since you're working with plastic it may also be possible to use a 21/64" or 5/16" bit. Next, tap the hole with a 1/8" NPT tap, install the barb, epoxy in place and you're finished. Part Number 1 499621 Dipstick 2 807985 Dipstick 3 495230 Dipstick 4 715588 Dipstick 5 281658 Fill Cap 6 691764 Hose Connector	499621
Hand-Held Tiny-Tach Diagnostic Tool	Part number 795163 is a pulse operated, hand-held tachometer designed more as a diagnostic tool than other Tiny-Tachs. This tach is set up as a wireless device but comes equipped with a plug in wired antenna for those occasions where a stable rpm reading is hard to get. It features an auto off feature to extend battery life. Accuracy is +/- 10 rpm and the display is updated every 1/2 second. Besides the standard rpm display, the tach can be programmed to display MAX rpm reached during each session. This is a nice, handheld wireless tachometer!	795163*
Digital Tachometer & Hourmeter	Meter displays rpm while engine is running. When engine is stopped, meter displays elapsed time. The maximum speed is 20,000 rpm and it updates 1-2 times per second.	19598
Quick Clamp Transducer	Use with 19457 Digital Tachometer and Hourmeter. Quick clamp design with spring loaded post terminal for easy installation and removal.	19463*
Adjustment Gauge	For adjusting secondary governor spring, V-Twin Vanguard™ engines. It is required for adjusting the governing on M29, M30, M35, M38 engines for generator applications, which can be challenging. On many of the applications the governor lever area is obscured by the exhaust system or that application, so trying to measure the distance between the governor arm and the control bracket without the gauge would be very difficult.	19385



12-10 SPEED - SIZE - TORQUE - MEASURING

	Diesel Tachometer	This tachometer uses the trigger module from the 3/LC gas engine as a sensor to monitor crankshaft motion. Most diesel engines sold since 2007 are equipped with this sensor. If not, it will have to be added. Order 825009 for the trigger module and 820013 for an attachment screw. The tachometer is powered by the pulses from the trigger module so it does not require an external battery. Besides a tachometer function, this unit also has 2 service countdown circuits, a max rpm circuit and a timer function that can be used to time specific jobs.	795195
CAS INCINA A MOLIBARITIE	Commercial Tachometer	Part number 795163 is a new commercial Tiny-Tach that has the same 20k rpm limit and refresh rate as the improved version mentioned previously. According to Tiny-Tach, the "commercial Gas Model can be used as a complete Service Tracking device for any spark ignited engine. It is programmable for different firing orders as well as for tracking two different service intervals." This is way more than a tachometer. Features include • Captures total time in hours and minutes up to 200 hours, and hours only thereafter • Displays any time the engine is running, up to 20,000 RPM • Displays maximum RPM recorded. Resettable. • Job length of time. A resettable timer displayed in hours and minutes up to 200 hours • Programmable "time till service" counter 0 to 50 hours	795193



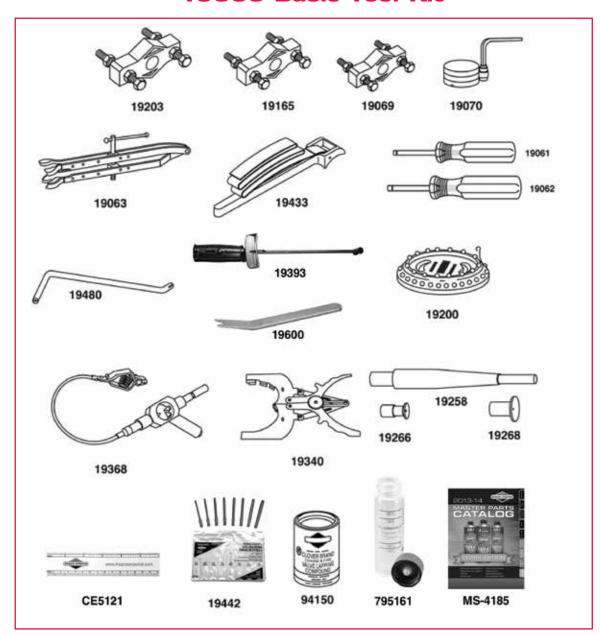
SPEED - SIZE - TORQUE - MEASURING 12-11

TESTING 12 VOLT STARTER MOTOR WITH DIGITAL MULTIMETER EXTRA HOLE FOR MOUNTING STARTER BHACKETS BHACKET FOR STARTER MOUNTING BAS \$19200 TACHOMETER \$70 DIAL TWO HOLES - 3/8" DIAL FOR STARTER MOUNTING BAS \$19200 TACHOMETER \$70 DIAL TWO HOLES FOR MOUNTING BAS \$19200 TACHOMETER \$19200	Tachometer (Treysit Sirometer)	This sirometer measures from 800 to 25,000 revolutions per minute (rpm). It can be used for measuring engine rpm and by making this bracket measuring starter motor rpm as stated in the repair manuals.	19200
	Tang Bender	For all engines. Used for setting top no load and governed idle speeds.	19480
	Dial Caliper Range: 0" to 6" (0 to 152.4 mm) and reads to .011"		19609*
	Micrometer Set	 1" to 3" micrometer set in blow-molded case. Stainless steel thimble and barrel in brushed satin finish Frame finished in industrial Hammertone paint Ratchet stop to aid measurement consistency 10 thousandths vernier scale Lock lever to lock spindle in position Carbide faced anvil and spindle Standards included 	19611
	Torque Wrench - 3/8" Drive	Range: 0 to 300 Inch Pound (0 to 346.8 Kgcm) (0 to 34.0 Nm)	19393



12-12 BASIC TOOL KIT

19300 Basic Tool Kit



KIT INCLUDES:

DLJ.		
Carburetor Jet Screwdriver Small Jets	19368	Tester - Ignition
•	19393	Torque Wrench
	19433	Flywheel Holder¹
1 0 1	19442	Torqux Start Bits ³ in handy pouch
•	19480	Tang Bender
• • • • • • • • • • • • • • • • • • • •	19600	Fuel Line Removal Tool
•	795161	Alcohol Fuel Tester
• •	94150	Clover® Valve Lapping Compound
,	CE5121	Air Gap Gauge .010" (.254 mm)
11 .	MS-4185	Master Parts Catalog
	Carburetor Jet Screwdriver, Small Jets Carburetor Jet Screwdriver, Large Jets Valve Spring Compressor Flywheel Puller - small, hole distance 1-5/8" Piston Ring Compressor (5 HP‡ & below) Flywheel Puller - medium, hole distance 2" Tachometer (Treysit Sirometer) Flywheel Puller - large, hole distance 2.13/16 Valve Lapper² (includes 19266 & 19268) Piston Ring Expander	Carburetor Jet Screwdriver, Small Jets Carburetor Jet Screwdriver, Large Jets Valve Spring Compressor Flywheel Puller - small, hole distance 1-5/8" Piston Ring Compressor (5 HP‡ & below) Flywheel Puller - medium, hole distance 2" Tachometer (Treysit Sirometer) Flywheel Puller - large, hole distance 2.13/16 Valve Lapper² (includes 19266 & 19268)

Note: Each tool part number can also be ordered separately.

³To order replacement bits, specify: 19510 (T-10) - 19511 (T-15) - 19512 (T-20) - 19482 (T25) - 19513 (T-27) - 19514 (T-30) - 19515 (T-40) - 19516 (T-45)



¹For replacement strap, order 19489

²To order replacement suction cups, specify: 19266 - 3/4" (19.1 mm) 19268 - 1-1/4" (31.8 mm)

STARTERS - ELECTRIC/MANUAL REWIND 12-13

	Dial Indicator	Dial Indicator For timing injector on Vanguard™3-cylinder liquid-cooled diesel engines.	
	Telescoping Gauge	Twelve inch (304 mm) length handle will reach the bottom of any cylinder bore. Range: 1.960" - 6.185"	19485*
The state of the s	Dial Bore Gauge	Fast, accurate method of checking cylinder bore size, taper and out of round. Range: 1.960" - 6.185".	19487*
	Telescoping Gauge Set	6 gauges. Range from 5/16" to 6.0"	19610
	6" Digital Caliper	 Measures steps, internal, external and depth measurements Large, easy to see numerals Readsininches or millimeters Packaged in hard case with extra battery 	19609
	Six-Inch Stainless Steel Scale	This tool is almost a requirement for the shirt pocket of any technician. Made of flexible stainless steel, this 6-inch scale is equipped with a T-square. Pocket clip that functions as a depth gauge. One side of the scale is metric and displays millimeters. The other side is graduated in inches and displays 64ths. The reverse side features a handy decimal equivalent chart.	CE5005
ways imprinse points com which is the state of the state	Air Gap Gauge	Disguised as a flexible 6-inch polymerruler, this tool's hidden purpose is a reusable, armature air gap gauge. Touse, back the armature out of it's widest clearance and snug it down. Line the flywheel magnet up with the armature, insert the gauge between the two and loosen the armature screws. The magnet will pull the armature down to the gauge. Tighten and torque the screws and remove the gauge. Sized at .010 to .012 inch, this setting can be used for all Briggs & Stratton engines.	CE5121
	Tachometer Adaptor	When attached to ignition module, permits use of Digital Tachometer, 19389 on Vanguard™ 3-cylinder liquid-cooled gasoline engines.	19456*
	Starter Repair Kit	For replacing rewind spring and starter ropes. For use on engines equipped with ratchet style starter clutches.	5054



12-14 VALVE COMPRESSION SERVICING

	Starter Clutch Wrench		19244
	Universal Socket	13 mm, 12 point, 1/4" Drive. For removing electric starter mounting screws. All V-Twin Vanguard™ engines.	19353
	C-Ring Installation Tool	Installing new C-ring on starter motor when replacing starter motor drive.	19435
	Replacement Drive Pins	Replacement drive pins for the C-ring removal tool	19447
BO	Universal Socket	12 mm 6 point, 1/4" drive socket for removing and installing starter motors on current Vanguard™ V-Twin engines, and 3/LC diesel injection pumps.	19497
	C-Ring Removal Tool	For removing C-ring on starter motor when replacing starter motor drive. All Models. Replaces 19436.	19522
TEDUTED	Torx [®] Driver	Designed to help remove the tamper-proof fasteners of the Touch-N-Mow starter system.	19524
	Valve Spring Compressor		19063
19139 19140 19141 19182 °	Valve Seat Puller Kit	Kit includes: 19139* Puller Nut 19140* Puller Nut 19141* Puller Nut 19182* Puller Nut • Note: Not available separately	19138



VALVE COMPRESSION SERVICING 12-15

19151 19233 19204 19231 19234 19239 NUT 19240 19238 19264	Valve Guide Repair Kit	For servicing 5/16" valve guides. Kit Includes: 19151 Plug Gauge 19204 Bushing Driver 19231 Reamer - Counterbore 19233 Reamer - Finish 19234 Reamer Guide 19238 Puller Bolt 19239 Nut 19240 Washer 19264 9 mm Tap Note: Each tool part number can also be ordered separately.	19232
	Valve Lapper	(includes 19266 and 19268) To order replacement suction cups, specify: 19622 - 3/4" (19.1 mm) 119268 - 1-1/4" (31.8 mm).	19258
19271	Valve Guide Repair Kit	For servicing 1/4" valve guides. Kit Includes: 19064 Reamer - Counterbore 19066 Reamer - Finish 19122 Plug Gauge 19191 Reamer Guide 19270 Washer 19271 Puller Bolt 19272 Nut 19273 7 mm Tap 19367 Bushing Driver Note: Each tool part number can also be ordered separately.	19269
	Valve Seat Cutter Repair Kit	3 blades - use on either side of cutter head. 3 set screws and 3 wedges	19302
	Reamer Guide	For guiding the 19346 reamer while finish reaming valve guide bushing in Vanguard™ engines.	19345



12-16 VALVE COMPRESSION SERVICING

	Valve Guide Reamer	For finish reaming single cylinder Vanguard™ engine models 104700, 161400, 260700, 261700 valve guide bushing after installation.	19346
	Valve Spring Compressor	For compressing valve springs, most Vanguard™ engine models.	19347
	Valve Guide Plug Gauge	Checking valve guides for wear - Models 20, 21, 31, 33 Vanguard [™] , engine models 104700, 161400, 260700, 261700, and single cylinder OHV model 280000.	19381
5	Valve Guide Plug Gauge	Checking valve guides for wear - Vanguard™ V-Twin engines. Also single cylinder Vanguard™ engine models 85400, 115400, 185400, 235400 and 245400	19382
	Valve Guide Driver	For installing guide bushings on Vanguard™ 3-cylinder liquid-cooled engines.	19416
	Valve Spring Compressor	For removing and installing valves on Vanguard™ 3-cylinder liquid-cooled engines.	19417
	Compression Test Adaptor	For testing compression on Vanguard™ 3-cylinder liquid-cooled diesel engines.	19443
	Valve Guide Reamer	For finish reaming Vanguard [™] V-Twin valve guides after installation. Also used for cleaning valve guides on Vanguard [™] 3-cylinder liquid-cooled engines. Use with 19345 Reamer Guide.	19444
	Neway Valve Seat Cutter Kit	For reconditioning 30° and 45° angle valve seats on Vanguard™3-cylinder liquid-cooled engines. Includes 15° cutter for top cutting 30° angle seats. Includes 6.0 and 6.02 mm pilots.	19547*
77	Valve Adjustment Set	For adjusting valves on Vanguard™ and Intek™ V-Twin engines. Offset 13 mm wrench with 5 mm hex and T-40 Torx® drivers.	19465
	Orifice	Calibrated specifically for use with the older 19475 Leakdown Tester on 3/LC engines.	19478*



VALVE COMPRESSION SERVICING 12-17

* = ·	Leakdown Tester	Used to test the sealing capabilities of the compression components of all engines. Comes with crankshaft clamp and case.	19545
	Easy Turn Wrench	Spring loaded body maintains an even pressure when cutting valve seats. Rotating handle allows continuous turning for faster seat cutting and minimizing chatter.	19549
	Seat Cutter Upgrade Kit	Thiskitwillupgradethebasic19237seatcutter kittothelevelof19547masterseatcutterkit.	19547*
Master Seat Cutter Kit		This kit will service all older and existing Briggs & Stratton® engines.	19547
Clover® Valve Lapping Compound		4 oz. (113 g) duplex can contains coarse (120 grit) and fine (280 grit) compound.	94150
Diesel Compression Tester		The 19566 3/LC Diesel Compression tester includes: 1. High pressure hose 2. Parker – "ST series 1" mini quick disconnect fitting 3. 19443 glow plug adapter 4. Pneumatic gauge protector 5. Injection molded storage case NOTE: Do not try to use an automotive type gasoline engine compression gauge on a diesel engine. They don't normally have the range necessary for diesel engines and there may be an issue with the hose bursting. Normal compression for the Briggs & Stratton 3/LC diesel engine is as high as 500 psi (35 bar). The 19566 3/LC Diesel Compression Testeris capable of reading 1000 psi (70 bar).	19566



12-18 VALVE COMPRESSION SERVICING

	3/LC Diesel Leakdown Adapter	This adapter kit allows the 19545 Leakdown Tester to be used to diagnose compression problems with the 3/LC diesel engine line. This kit includes the following: • A quick disconnect fitting that attaches to the high pressure supply side of the leakdown tester • A hose quipped with a mini quick disconnect fitting that attaches to the low pressure side • A 19443 diesel compression tester adapter that screws into the glow plug hole. NOTE: Remove the Shrader Valve from the 19443 adapter when performing leakdown testing. Once the adapter parts are installing, the tester is used in the normally fashion. 1. Standard "M" style fitting with orifice drilled in the end of fitting 2. Standard "M" style quick release fitting 3. Adapter properly attached to the leakdown tester 4. Parker – "ST Series I" mini quick disconnect	19559
	Brake Adjustment Gauge	For adjusting band brakes	19256
	Governor Bushing Reamer	For finish reaming 1/4" (6.35 mm) governor shaft bushing, after installation. 3 HPtto 16 HPtsingle cylinder mechanical governor engines.	19333
I.	Puller, Crankshaft Pulley	For removing crankshaft pulley on Vanguard™ 3-cylinder liquid-cooled engines.	19420
	Alternator Wrench For use on 3/LC engines. Holds alternator pulle nut when removing and installing alternator pulley. Also handy when rotating crankshaft when adjusting valve clearance.		19491
and the second s	Torqux Star Bits	Toremove and install Torx®screws. In handy pouch. T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-45 bit length 3.75 inches. These Torqux star bits are not to be used with pneumatic hand tools. Replacement bits: 19510 (T10), 19511 (T15), 19512 (T20), 19513 (T27), 19482 (T25), 19514 (T30), 19515 (T40), 19516 (T45)	19442



MISCELLANEOUS 12-19

	Injector Tester	If you service and repair diesel engines on a regular basis, a diesel injector tester is a must have tool. This test from US Diesel in Fort Worth, Texas is what we use so we know it's tough enough for everyday use. This tool is part number U470/600B and is supplied with a 12 mm and 14 mm injector line.	
	Pressure Washer Tester Gauge	This pressure gauge is installed between the pump head and high pressure hose to check pump output pressure. It has a M22 X M22 connection that will allow quick installation on hoses with those fittings. With the gauge installed in this position, gauge readings will be approximately 200 psi (13-14 bar) lower than the rated pump pressure due to pressure loss across the unloader	196682GS
ASA FOR 1 ASAM AND 1 ASAM AND 1 ASAM 1 ASA	Alcohol Fuel Tester	Briggs & Stratton introduced a tester to determine the alcohol contenting asoline almost three decades ago. At that point we were concerned about the damage fuel containing more than 10% alcohol could do to fuel systems. Fuel in some parts of the world is being marketed with 75 to 85% alcohol. Because this fuel is not suitable for use in our engines, you may need to have a method to determine what the actual content is. This tester is marked with a calibration line at 10%, 20% 70% and another at 85%. This provides the technician with visual cues as to the alcohol content. Fill tester with water to the fill line first. Then add gasoline needed to be tested all the way to the top. Read the side of the tester where it shows the gasoline and water separation point.	795161
	Heavy Duty Shop Towels	These all-purpose wipers are great for keeping the work bench and shop clean.	100054
TOO STORMS	Aerosol Spray Paint for Engines	Fast drying, lacquer base, gasoline and heat resistant, 13 ounce (369g) spray can. Available colors, order separately: 271400 (gloss black), 271405* (ice white), 271403 (satin black), 271675 (American red)	271400
	Grease Gun	Well crafted from quality materials and chrome- plated to extend its life, these use the standard Briggs & Stratton 14 oz. (379g) long grease tubes. A short strokelever-action makes it easy to use in tight spaces. 14 oz. grease tube part number-100059	100110



12-20 MISCELLANEOUS

High- Performance Grease		14 oz. (397g) cartridge. Moly/graphite provides maximum anti-wear protection. Ideal for industrial, automotive, & outdoor power equipment	100059
	Fix-A-Thread Kits	For repairing damaged and stripped threads. 100024 Master Thread Repair Kit includes: 100007 (thread repair kit 10-32), 100008 (thread repair kit 1/4-20), 100009 (thread repair kit 5/16-18), 100010 (thread repair kit M5x.8), 100011 (thread repair kit M8x1.25), 100013 (thread repair kit 14 mm Spark Plug). Thread insert refills: 4185-10-32 refill-10	100024
	Quick Fuel Line Disconnects	These fuelline quick disconnects allow the fuel line to be separated without fuel leakage. When servicing or testing equipment that frequently needs to have the engine or fuel tank separated from the equipment, these fittings offer you a spill-proof method. The male end is part number 192695GS and the female end is part number 189117GS. Both are available as a Briggs & Stratton Power Products part number.	192695GS 189117GS 189117GS
Grease Gun Kit- Simple one-Handed Operation		Containssteel grease gun, application tube & one 3 oz. grease cartridge.	100057
	Grease Gun Refill Kit	Grease Refill Cartridges for Grease Gun Kit 100057	100058
Pen Light		Featuring a black ink refill on one side and an LED flashlight on the other, you're ready to peer into poorly lighted spaces such as carburetor jets or fuel tanks and record your findings on a shop ticket. Flashlight uses 3 LR41 button cells (included)	CE5004
		For use on Conquest and Prestige power steering	1686997SM
and included the	Caliper	Takes the guess work out of leveling mower decks. Calibrated from 1.5" to 3.25"	1686997SM
A STATE OF THE PARTY OF THE PAR	Flow Meter Kit	For testing and troubleshooting hydraulic systems.	1687102SM



MISCELLANEOUS 12-21

Quick Connect Coupling	Use this as an add on to flow meter 1687102SM to allow flow meter to plug into hydraulic. Requires use of a Male Pipe X Male JIC Adaptor	2173359SM
Drive Disc Adjustment Tool	Used to adjust the drive disc on the rear engine rider.	7060601YP
Spanner Wrench	Use this tool to adjust the rear shocks on select models.	5022853SM
Repower Terminal Kit	The Engine Repower Terminal Kit will equip you to handle almost any electrical connectoror terminal service work on nearly any air-cooled engine equipment repower that comes your way. The generous selection of connectors and terminals provides you with the necessary component to perform equipment repower by removing the old worn out non-Briggs & Stratton engine and replacing it with a new modern Briggs & Stratton engine. This Repower Kit is designed to work on virtually all pieces of equipment manufactured globally.	19615





BRIGGS&STRATTON ELECTRICAL STRATTON ELECTRICAL

WARRANTY APPROVED.

PERIOD.

	Drive Belt	30-38 & 40 gear & 50 gear drive LT pan frame tractors 30-40-42-46 & 48 decks w/ Peerless hydro drives	037X61MA
	Blade Belt	38" deck, new models since 1989	037X63MA
	Blade Belt	42" cut decks 1993	037X75MA
	Drive Belt	Fits Model 42516X92B	037X87MA
9	Blade Belt	42" cut decks 1993	037X89MA
	Blade Belt	40" cut LT tractors, new models since 1989 w/side discharge	037X62MA
	V-Belt (Deck)	Blade drive belt, fits 42" hydro tractor	037X88MA
9	Blade Drive Belt		37X111MA
	Drive Belt		742552MA
8	Auger Belt		742550MA
	21" Blade	Combination blade, 21" mower deck, replaces 71584E701, 71584-853, 71161E701	2028
	20" Blade	20" Mulching blade, center hole round (.406")	471548MA

14-2 BLADES

		40" Blade	Combination 2 blade set. Replaces 95103E701, 56251E701, 92544E701, 456251, 95103-853	2029	
		20" Blade	Combination blade, replaces 672763E701, 671921E701	2031	
		30" Blade	Combination Mulch/Bag/Discharge Blade, replaces 1401079	77010793MA	
		36" Blade Set	Combination Mulch/Bag/Discharge, 2 blade set, replaces 54390E701, 54390HT, 24116HT, 2090HT	454390MA	
		46" Blade Set	Combination 3-Blade set, mulching blade, replaces 056631E701, 656631	2053	
		22" Blade	Combination blade, 22" mower deck, replaces 1101120E701, 672735E701, 71849E701, 71499E701, 71113E701, 671849-853	2030	
E CERTIFICATION OF THE PERSON		42" Blade	2 blade set, replaces 95100E701, 95100- 853. 56252E701, 92545E701, 456252	2027	
i		38" Blade	Combination Mulch/Bag/Discharge, 2 blade set, replaces 95104E701, 92543E701, 56250E701 Round hole (.852")	4951043MA	
		30" Blade	Combination Mulch/Bag/Discharge blade, replaces 56217E701	4562173MA	
ô.	© 0	Blade Adapter Kit	Assembly for Murray riding mowers with splined mandrel(s)	491926MA	Case pack Qty 20
	•	Idler Pulley	For Murray blade and motion drive idler systems, 42 Series Motion Drive Assembly	420613MA	Case pack Qty 24

Murray Par





MOWER/TRACTOR/SNOW THROWER PARTS 14-3

	9	Idler Pulley	Packaged part same as Murray 91891. For belt engagement pulley: 28, 40, 42 & 46	774089MA	Case pack Qty 10
	400	Shear Bolt Kit	For 22"-29" snow throwers with 10"-12" augers	500026MA	Case pack Qty 10
	1100	Shear Bolt Kit		1501216MA	Case pack Qty 100
	سر	Splined Mandrel Kit	Assembly for Murray riding mowers, 7.03" splines jackshaft	774091MA	Case pack Qty 10
77-1	۹	Blade Adapter	For riders	690411MA	Case pack Qty 100
0 -		Idler Pulley Kit	Flat/backside idler pulley	421409MA	Case pack Qty 10
		Jackshaft Assembly (Mandrel Housing)	Assembly for all Murray riding mowers using a blade adapter	492574MA	Case pack Qty 10
	11:	Shear Bolt Kit	For 27"-33" snow throwers with 16" augers	500027MA	Case pack Qty 10
0	10	Splined Mandrel Kit (Long-Fine Splines)	Assembly for Murray riding mowers, 7.89" jackshaft threaded and splined	491922MA	Case pack Qty 10
	®	Flat/Backside Idler Pulley	Replaces 23238	423238MA	Case pack Qty 14
	1199	Shear Pin Kit	Fits most snowthrowers, dual stage models from 2009 and prior.	742551MA	Case Pack Qty - 5

14-4 MOWER/TRACTOR/SNOW THROWER PARTS

A .	*	Solenoid	For all Murray electric start riders 1979 to present; replaces 24285, 9924285, 21261, 24466, 54743, 91291, 94613, 1002004	7701100MA	Case Pack Qty - 10
		Wheel Bearing Set		491334MA	Case Pack Qty - 10
0		Wheel, 8" x 2"		1101433MA	Case Pack Qty - 10
•		Wheel, 8" x 2"		774011MA	Case Pack Qty - 5
•		Wheel, 8" x 2"	Drive wheel - front wheel drive mowers	672441MA	





15-2 SIGNS - BANNERS - FLAG - COUNTER MAT

BRIGGSSSTRATION	Briggs & Stratton® Aluminum Sign	Size 36" x 24", available for all service accounts	AM-9873A
BRIGGS STRATTON AUTHORIZED SERVICE CENTER	Briggs & Stratton® Authorized Service Center Aluminum Sign	Size 36" x 24", available for all authorized sales & service accounts	AM-9951
BRIGGS&STRATION COMMERCIAL POWER	Briggs & Stratton® Commercial Power, Aluminum Sign	Size 36" x 24"	AM-9954
BRIGGS STRATION	The Power Within™ Banner	Size 48" x 28"	AM-3006A
BRIGGS STRATTON	Commercial Power Banner	Size 48" x 28"	AM-9855
BRIGGS&STRATION	Flag	Size 60" x 36"	AM-9903A
DON'T JUST FIX IT. MAKE IT BETTER.	Repower Snow Banner	Size 48" x 28"	AM-5003
PUT NEW LIFE IN YOUR OLD EQUIPMENT.	Repower Green Banner	Size 48" x 28"	AM-5004
	Commercial Power Counter Mat w/Insert	Size 21" x 16", can display an 8.5" x 11" special advertising offer, counter mat is made of scratch resistant vinyl, non-skid backer	AM-9856



ENGINE MODEL NUMBER KEY 16-1

YOUR KEY TO THE WORLD'S FINEST ENGINES

This chart explains the unique Briggs & Stratton numerical model designation system. It is possible to determine most of the important mechanical features of the engine by merely knowing the model number. Here is how it works:

- A. The first one or two digits indicate the approximate CUBIC INCH DISPLACEMENT.
- B. The first digit after the displacement indicates the BASIC DESIGN SERIES, relating to cylinder construction, ignition, general configuration, etc.
- C. The second digit after the displacement indicates ORIENTATION OF CRANKSHAFT.
- D. The third digit after the displacement indicates TYPE OF BEARINGS, and whether or not the engine is equipped with REDUCTION GEAR or AUXILIARY DRIVE.
- E. The last digit indicates the TYPE OF STARTER.

BRIGGS & STRATTON MODEL NUMBERING SYSTEM

	FIRST DIGIT AFTER DISPLACEMENT	SECOND DIGIT AFTER DISPLACEMENT	THIRD DIGIT AFTER DISPLACEMENT	FOURTH DIGIT AFTER DISPLACEMENT		
Α	В	С	D	Е		
CUBIC INCH DISPLACEMENT	BASIC DESIGN SERIES	CRANKSHAFT ORIENTATION	PTO BEARING, REDUCTION GEAR, AUXILIARY DRIVE, LUBRICATION	TYPE OF STARTER		
2 5 6 8 9 10 11 12 13 15 16 18 19 20 21 22 23 24 25 28 29 30 31 32 35 38 40 42 43 44 46 47 49 52 54 58 61	0 1 2 3 4 5 6 7 8 9 A to Z	0 to 4 - Horizontal Shaft 5 to 9 - Vertical Shaft A to G - Horizontal Shaft H to Z - Vertical Shaft	 0 - Plain Bearing/DU Non-Flange Mount 1 - Plain Bearing Flange Mounting 2 - Sleeve Bearing Flange Mounting Splash Lube 3 - Ball Bearing Flange Mounting Splash Lube 4 - Ball Bearing Flange Mounting Pressure Lubrication 5 - Plain Bearing Gear Reduction (6 to 1) CCW Rotation Flange Mounting 6 - Ball Bearing Gear Reduction (2 to 1) CCW Rotation 7 - Plain Bearing Pressure Lubrication 8 - Plain Bearing Auxiliary Drive (PTO) Perpendicular to Crankshaft 9 - Plain Bearing Auxiliary Drive Parallel to Crankshaft A - Plain Bearing Pressure Lubrication Without Oil Filter 	 0 - Without Starter 1 - Rope Starter 2 - Rewind Starter 3 - Electric Starter Only 110 or 230 Volt Gear Drive 4 - Electric Starter/110 or 230 Volt Gear Drive with Alternator 5 - Electric Starter Only 12 or 24 Volt Gear Drive 6 - Alternator Only 7 - Electric Starter 12 or 24 Volt Gear Drive with Alternator 8 - Vertical Pull Starter or Side Pull Starter 9 - Mechanical Starter A - Electric Starter 12 or 24 Volt Gear Drive with Alternator and Inverter B - Lithium Ion Battery 		
EXAMPLE - To identify Model 303447:						
30	3	<u>4</u>	<u>4</u>	<u>7</u>		
30 Cubic Inch	Design Series3	Horizontal Shaft	Ball Bearing Flange Mounting Pressure Lubrication	Electric Starter 12 or 24 Volt Gear Drive with Alternator		

TYPE 1234-01, The type number identifies the engines mechanical parts, color of paint, decals, governed speed, and Original Equipment Manufacturer.

CODE 01061201, The code is the manufacturing date and is read as follows:

YEAR	MONTH	DAY	ASSEMBLY LINE AND MANUFACTURING PLANT
01	06	12	01







BRIGGS&STRATTON
CORPORATION

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