



ELECTRIC MOTOR BRUSH MATERIALS

Carbon (C):

The term "carbon brush" in this industry is a type of material composed principally of amorphous carbon. This type of material is usually very hard* and usually has a dull gray appearance. These materials have moderate current densities and are adapted to lower speed motors.

Carbon-graphite (CG):

The term "carbon-graphite brush" in this industry is a type of carbon material, composed principally of amorphous carbon, to which graphite is added. This type of material may vary from medium hardness to very hard* and usually has a dull dark gray to black appearance. These materials have moderate current densities and are adapted to moderate speed motors.

Electro-graphite (EG):

The term "electro-graphite brush" in this industry is a type of material composed principally of amorphous carbon. These materials are heat-treated at temperatures high enough to chemically alter the components into what is considered its electrographitized form. This type of material is versatile, and may be made soft or very hard* and usually has a black appearance. These materials have high current densities and are adapted for low to high-speed motors.

Natural-graphite (NG):

The term "natural-graphite brush" in this industry is a type of material composed principally of graphite. This type of material is generally soft* and usually has a shiny gray appearance. These materials vary from low to high current densities and are adapted for low to high-speed motors.

Metal-graphite (MG):

The term "metal-graphite brush" in this industry is a type of material composed principally of varying percentages of metals and graphite. Metal contents generally range as low as 30% and do not normally exceed 97%. This type of material is generally soft* and may have a gray appearance for low metal content materials to a copper color appearance for high metal content materials. These materials have high current densities and are adapted for low to high-speed motors.

Performance Treated (PT):

Many of today's demanding material handling applications require improved brush performance. In these situations, brush materials are offered impregnated with a variety of organic and inorganic materials, which greatly increases strength, durability, and self-lubricating qualities, resulting in improved brush performance. Many of our standard replacement products cataloged in this publication are offered in these materials or are offered under a separate LPM stocking number.

***Using the Shore™ scleroscope C scale and relative to other classes of carbon brush materials.**

Brush Dimensions:

Length: The length of a carbon brush is the maximum overall dimension (usually the back of the carbon only) measured in the direction in which the carbon feeds the commutator.

Width: The width of a carbon brush is the dimension at right angles to the length of the brush and direction of rotation.

Thickness: The thickness of a carbon brush is the dimension at right angles to the length of the brush in the direction of rotation.

Brush Wear Indicator (BWI):

A sensor wire located below the shunt wire in a brush. The wire communicates to an on-board monitoring system of the vehicle when the brush is worn to the point it should be replaced. This indicator signals the need for brush replacement before motor damage, or failure occurs.



ELECTRIC MOTORS

brush maintenance & troubleshooting

ELECTRIC MOTOR BRUSH MAINTENANCE AND TROUBLE SHOOTING

Difficulties Resulting from the use of Improper Carbon Brush Material

Effects and Evidences of Difficulties

<i>Cause of Carbon Part and Commutator Difficulty</i>	<i>Sparking</i>	<i>High Mica</i>	<i>Flat Spots</i>	<i>Commutator Heating</i>	<i>Armature Heating</i>	<i>Black Commutator</i>	<i>Rapid Commutator with Black Commutators</i>	<i>Rapid Commutator Wear with Bright Commutators</i>	<i>Pitting of Commutators</i>	<i>Noisy Carbon Faces</i>	<i>Loosening of Carbon Part Shunts</i>	<i>Rapid Carbon Part Wear</i>	<i>Burning of Brush Holder Boxes</i>	<i>Loss of Temper in Brush Springs</i>
Too low carrying capacity			✓	✓				✓				✓		
Too little abrasive action	✓		✓	✓										
Too much abrasive action			✓				✓		✓			✓		
High friction brushes			✓						✓					
Too high contact drop	✓		✓											
Too low contact drop	✓		✓	✓	✓				✓			✓		

Difficulties Resulting from Faulty Carbon Brush Operation

Effects and Evidences of Difficulties

<i>Cause of Carbon Part and Commutator Difficulty</i>	<i>Sparking</i>	<i>High Mica</i>	<i>Flat Spots</i>	<i>Commutator Heating</i>	<i>Armature Heating</i>	<i>Black Commutator</i>	<i>Rapid Commutator with Black Commutators</i>	<i>Rapid Commutator Wear with Bright Commutators</i>	<i>Pitting of Commutators</i>	<i>Noisy Carbon Faces</i>	<i>Loosening of Carbon Part Shunts</i>	<i>Rapid Carbon Part Wear</i>	<i>Burning of Brush Holder Boxes</i>	<i>Loss of Temper in Brush Springs</i>
Brushes off electrical neutral	✓		✓	✓				✓						
Incorrect brush spacing	✓		✓	✓				✓		✓				
Brushes too thick	✓		✓	✓				✓						
Brush pressure too low	✓	✓	✓	✓	✓			✓				✓		
Brush pressure too high			✓				✓		✓			✓		
Unequal brush pressure	✓							✓		✓				
Brushes tight in holders	✓	✓	✓		✓	✓		✓				✓		
Worn holders, 1 direction motors									✓	✓		✓	✓	
Worn holders, rev. motors	✓								✓	✓		✓	✓	✓
Brush operated at wrong angle									✓	✓		✓		
Brushes chattering	✓	✓	✓						✓	✓		✓		
Too high ratio, brush:com surface			✓											
Lubricated brushes				✓										
Loose brush shunts												✓		✓
Loose terminal screws												✓		✓



ELECTRIC MOTOR BRUSH MAINTENANCE AND TROUBLE SHOOTING

Difficulties Resulting from Commutator Defects

Effects and Evidences of Difficulties

*Cause of Carbon Part and
Commutator Difficulty*

	Sparking	High Mica	Flat Spots	Commutator Heating	Armature Heating	Black Commutator	Rapid Commutator Wear with Black Commutators	Rapid Commutator Wear with Bright Commutators	Pitting of Commutators	Noisy Carbon Faces	Loosening of Carbon Part Shunts	Rapid Carbon Part Wear	Burning of Brush Holder Boxes	Loss of Temper in Brush Springs
Brushes not parallel to com bars	✓		✓	✓					✓		✓			
High mica	✓	✓	✓		✓	✓				✓				
High bar	✓	✓							✓			✓		
Low bar	✓	✓												
Eccentric com at high speed	✓	✓												
Rough commutator			✓								✓			
Use of lubricant on commutator			✓		✓									
Dirty commutator			✓											
Difference in hardness of bars		✓												
Difference in hardness of mica		✓												
Com not properly finished			✓								✓			
Commutator too small			✓											

Difficulties Resulting from Armature and Field Defects

Effects and Evidences of Difficulties

*Cause of Carbon Part and
Commutator Difficulty*

	Sparking	High Mica	Flat Spots	Commutator Heating	Armature Heating	Black Commutator	Rapid Commutator Wear with Black Commutators	Rapid Commutator Wear with Bright Commutators	Pitting of Commutators	Noisy Carbon Faces	Loosening of Carbon Part Shunts	Rapid Carbon Part Wear	Burning of Brush Holder Boxes	Loss of Temper in Brush Springs
Worn bearings	✓		✓	✓										
Flux Distribution	✓		✓	✓										

Difficulties Resulting from External Sources

Effects and Evidences of Difficulties

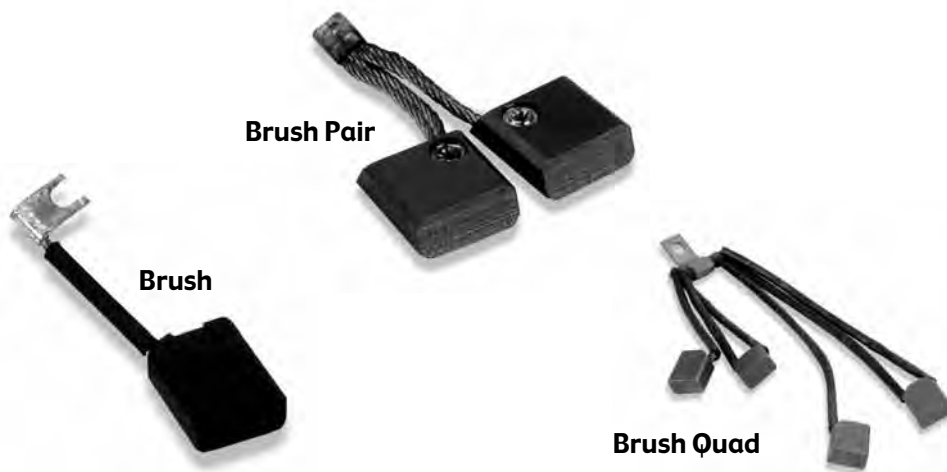
*Cause of Carbon Part and
Commutator Difficulty*

	Sparking	High Mica	Flat Spots	Commutator Heating	Armature Heating	Black Commutator	Rapid Commutator Wear with Black Commutators	Rapid Commutator Wear with Bright Commutators	Pitting of Commutators	Noisy Carbon Faces	Loosening of Carbon Part Shunts	Rapid Carbon Part Wear	Burning of Brush Holder Boxes	Loss of Temper in Brush Springs
Overloads	✓		✓	✓							✓			
Surges of load on line		✓												
Cross currents btwn generators	✓	✓	✓	✓				✓		✓				
Poor belt lacing		✓												
Pound of engine		✓												
Unstable foundation	✓	✓												



ELECTRIC MOTORS

electric motor brushes



OE #	Thickness Inches	Width Inches	Length Inches	Grade	Brush
KALMAR AC					
006 74905965	9/32"	3/4"	21/32"	MG	Single set of 4
006 74905973	9/32"	3/4"	21/32"	MG	Single set of 4
006 74905979	13/32"	1"	1-3/8"	EG	Single set of 4
006 74905981	13/32"	1"	1-3/8"	EG	Single set of 4
006 74906521	9/32"	7/8"	3/4"	MG	Quad set of 2
006 74906537	11/32"	3/4"	11/16"	MG	Pair set of 2
006 74907386	11/32"	3/4"	21/32"	EG	Pair set of 2
006 74907761	1/2"	5/8"	1-3/8"	EG	Single set of 8
006 74908065	5/8"	1-1/4"	1-19/32"	EG	Pair
006 74908272	1/2"	1-1/4"	1-11/32"	EG	Pair
006 74911309	1/2"	1-1/4"	1-13/32"	NG	Single set of 4
006 74911481	3/8"	13/16"	1-1/8"	EG	Single
006 74911698	5/8"	1-1/4"	1-3/4"	EG	Pair set of 2
006 74912263	11/32"	3/4"	21/32"	EG	Pair set of 2
006 74912290	5/8"	1-3/4"	1 9/16"	EG	Pair
006 74912292	5/8"	1-1/4"	1-19/32"	EG	Pair
006 74912294	1/2"	1-1/4"	1-11/32"	EG	Pair
006 74913406	9/16"	1"	1-3/8"	MG	Single set of 8
006 74913407	9/16"	1"	1-11/32"	EG	Single set of 8
006 74913504	1/2"	1-1/4"	1-3/8"	EG	Pair
006 74914589	13/32"	1"	1-3/8"	EG	Single set of 4
006 74915652	9/16"	1"	1-3/8"	MG	Single set of 8
006 74916087	13/32"	1"	1-3/8"	EG	Single set of 4
006 74916929	11/32"	11/16"	5/8"	MG	Single set of 4
006 74960334	11/32"	11/16"	21/32"	EG	Single set of 2
006 74996492	5/8"	1-1/4"	1-19/32"	EG	Pair
006 74997846	5/8"	1-1/4"	1-19/32"	EG	Pair
006 74997858	1/2"	1-1/4"	1-11/32"	EG	Pair
006 78733449	5/8"	31/32"	1-5/16"	MG	Single



OE #	Thickness	Width	Length	Grade	Brush
BAKER/LINDE					
017 004301	11/32"	3/4"	1"	MG	Pair set of 2
017 004304	9/32"	7/8"	3/4"	MG	Quad set of 2
017 004306	9/16"	1"	1-11/32"	EG	Single set of 8
017 004312	13/32"	1"	1-3/8"	EG	Single set of 4
017 004327	11/32"	3/4"	21/32"	EG	Pair set of 2
017 004331	13/32"	1"	1-3/8"	MG	Single
017 004333	1/2"	5/8"	1-3/8"	EG	Single set of 8
017 004336	11/32"	11/16"	5/8"	EG	Single set of 4
017 004338	1/2"	5/8"	1-11/16"	MG	Single set of 4
017 004356	9/32"	3/4"	21/32"	MG	Single set of 4
017 004357	9/32"	3/4"	21/32"	MG	Single set of 4
017 004359	11/32"	11/16"	21/32"	EG	Single set of 2
017 004363	9/32"	3/4"	21/32"	MG	Single set of 4
017 004366	3/8"	13/16"	1"	EG	Single set of 4
017 005781	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
017 101201	11/32"	3/4"	21/32"	EG	Pair set of 2
017 108780	13/32"	1"	1-3/8"	EG	Single set of 4
017 112545	3/8"	13/16"	1"	EG	Single set of 4
017 116060	11/32"	3/4"	1"	MG	Pair set of 2
017 116088	9/32"	7/8"	3/4"	MG	Quad set of 2
017 123603	3/8"	13/16"	1-1/8"	EG	Single
017 126552	1/2"	5/8"	1-1/2"	NG	Single set of 4
017 126569	1/2"	1-1/4"	1-3/4"	MG	Single
017 129938Q	1/2"	1-1/4"	1-3/4"	MG	Single set of 4
017 129964	1/2"	5/8"	1-1/2"	MG	Single
017 129964Q	1/2"	5/8"	1-1/2"	NG	Single set of 4
017 12MP16B	11/32"	3/4"	1"	MG	Pair set of 2
017 12MP16C	11/32"	3/4"	11/16"	MG	Pair set of 2
017 12MP16D	11/32"	3/4"	1"	MG	Pair set of 2
017 131135Q	11/32"	11/16"	5/8"	MG	Single set of 4
017 131141Q	11/32"	11/16"	5/8"	MG	Single set of 4
017 134514	11/32"	1"	1"	MG	Single set of 4
017 136864	1/2"	1-1/4"	1-3/4"	MG	Single
017 152156	11/32"	5/8"	5/8"	MG	Single set of 4
017 15MP9A	9/32"	7/8"	3/4"	MG	Quad set of 2
017 18AL1	1/2"	5/8"	1-3/8"	EG	Single set of 8
017 240MAT1	1/2"	1-1/4"	1-1/2"	EG	Pair
017 988673	9/32"	3/4"	21/32"	MG	Single set of 4
017 988679	9/32"	3/4"	21/32"	MG	Single set of 4
017 993549	11/32"	11/16"	21/32"	EG	Single set of 2
017 993943	1/2"	5/8"	1-3/8"	EG	Single set of 8
017 993953	13/32"	1"	1-3/8"	EG	Single set of 4
017 993965	9/32"	3/4"	21/32"	MG	Single set of 4
017 997321	13/32"	1"	1-3/8"	MG	Single set of 4
017 9Y2192CX	7/16"	1"	1-1/8"	EG	Pair
017 9Y2192X	7/16"	1"	1-1/8"	EG	Pair
017 9Y2192X-/417/	7/16"	1"	1-1/8"	EG	Pair
017 9Y2192Y	7/16"	1"	1-1/8"	EG	Pair
017 FM8100494	5/16"	25/32"	1"	MG	Single set of 4

Lift Truck Parts Professionals



ELECTRIC MOTORS electric motor brushes

OE #	Thickness	Width	Length	Grade	Brush
BAKER/LINDE cont					
017 GEM3	1/2"	5/8"	1-11/16"	MG	Single set of 4
017 L0009718103	5/16"	1-1/4"	1-11/32"	MG	Single
017 L0009718118	7/32"	1/2"	7/8"	NG	Single
017 L0009718119	1/2"	1"	1-1/4"	NG	Single
017 L0009718119Q	3/8"	1-1/4"	1-1/4"	NG	Single set of 4
017 L0009718141	1/2"	5/16"	7/8"	MG	Single
017 MEE12AS	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
017 ST085811	5/8"	31/32"	1-1/4"	MG	Single
017 ST257135	5/8"	1-1/4"	1-1/4"	NG	Single
017 ST257185	5/8"	1-1/4"	1-1/4"	NG	Single
017 ST344640	3/8"	5/8"	1"	EG	Single
BARRETT					
012 15953-048	9/32"	3/4"	21/32"	MG	Single set of 4
012 16913-003	11/32"	3/4"	11/16"	MG	Pair
012 16954-004	9/32"	3/4"	21/32"	MG	Single set of 4
012 16954-005	9/32"	7/8"	3/4"	MG	Quad
012 16954-006	7/16"	3/4"	1"	MG	Pair
012 16954-007	1/2"	5/8"	1-11/16"	MG	Single
012 16954-008	1/2"	1-1/4"	1-3/4"	MG	Single
012 16954-009	1/2"	1-1/4"	1-7/8"	EG	Single
012 16954-011	11/32"	3/4"	11/16"	MG	Pair
012 16954-012	11/32"	11/16"	21/32"	EG	Single set of 2
012 16954-014	1/2"	1-1/4"	1-3/4"	MG	Single
012 16954-016	1/2"	1-1/4"	1-3/4"	NG	Single
012 16954-016S	1/2"	1-1/4"	1-3/4"	NG	Single
012 16954-017	1/2"	1-1/4"	1-3/4"	NG	Single
012 16954-019	1/2"	1-1/4"	1-3/4"	NG	Single set of 4
012 27327-121	9/32"	7/8"	3/4"	MG	Quad
012 27327-194	11/32"	11/16"	5/8"	MG	Single set of 4
012 27327-201	11/32"	11/16"	5/8"	MG	Single set of 4
012 27327-287	11/32"	5/8"	5/8"	MG	Single set of 4
012 27327-297	11/32"	5/8"	5/8"	MG	Single set of 4
012 27793-008	11/32"	11/16"	5/8"	MG	Single set of 4
012 27793-020	11/32"	11/16"	5/8"	MG	Single set of 4
012 28802-013	9/32"	7/8"	3/4"	MG	Quad
012 28802-014	1/2"	5/8"	1-11/16"	MG	Single
012 28802-015	1/2"	1-1/4"	1-3/4"	MG	Single
012 28802-017	1/2"	1-1/4"	1-3/4"	NG	Single
012 28802-018	9/32"	7/8"	3/4"	MG	Quad
012 28802-019	11/32"	11/16"	5/8"	MG	Single set of 4
012 28802-020	11/32"	11/16"	5/8"	MG	Single set of 4
012 28802-021	11/32"	3/4"	11/16"	MG	Pair
012 28802-022	9/32"	3/4"	21/32"	MG	Single set of 4
012 28802-024	9/32"	3/4"	21/32"	MG	Single set of 4
012 29000754-000	11/32"	3/4"	11/16"	MG	Pair
012 A16954-4	9/32"	21/32"	3/4"	MG	Single set of 4
012 A16954-7	1/2"	5/8"	1-11/16"	MG	Single
012 A16954-8	1/2"	1-1/4"	1-3/4"	MG	Single
012 A27327-194	11/32"	11/16"	5/8"	MG	Single set of 4

Lift Truck Parts Professionals



ELECTRIC MOTORS
electric motor brushes

OE #	Thickness	Width	Length	Grade	Brush
BARRETT cont					
012 A27793-20	11/32"	11/16"	5/8"	MG	Single set of 4
012 A27793-8	11/32"	11/16"	5/8"	MG	Single set of 4
012 C16913-48	11/32"	3/4"	11/16"	MG	Pair
012 C15953-48	9/32"	3/4"	21/32"	MG	Single set of 4
BT LIFT					
231 167544	25/64"	25/32"	13/16"	NG	Pair
231 22355	11/32"	1/2"	1"	NG	Single
231 24780	25/64"	25/32"	13/16"	MG	Single set of 4
231 27548	25/64"	25/32"	13/16"	NG	Pair
232 129848	3/8"	31/32"	3/4"	MG	Single
232 135858	3/8"	31/32"	13/16"	MG	Single
232 161611	3/8"	31/32"	13/16"	MG	Single
CLARK					
007 1810584	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4 w/springs
007 1810605	1/8"	2-1/2"	1-3/4"	MG	Single set of 4 w/springs
007 1810643	5/8"	1-1/4"	1-9/16"	EG	Pair set of 4 w/springs
007 1810648	9/32"	7/8"	3/4"	MG	Quad set of 2 w/springs
007 1810650	13/32"	1"	1-3/8"	EG	Single set of 4 w/springs
007 1810651	13/32"	1"	1-3/8"	EG	Single set of 8 w/springs
007 1810654	11/32"	5/8"	3/4"	MG	Quad set of 2 w/springs
007 1810658	9/16"	1"	1-11/32"	EG	Single set of 8 w/springs
007 1810668	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4 w/springs
007 1810673	1/2"	5/8"	1-3/8"	EG	Single set of 8 w/springs
007 1810674	1/2"	5/8"	1-3/8"	EG	Single set of 8 w/springs
007 1810684	1/2"	5/8"	1-3/8"	EG	Single set of 8 w/springs
007 1810723	1/2"	5/8"	1-3/8"	EG	Single set of 8 w/springs
007 1810744	13/32"	1"	1-3/8"	EG	Single set of 4 w/springs
007 1810794	5/8"	1-1/4"	1-9/16"	EG	Pair set of 4 w/springs
007 1810799	13/32"	1"	1-3/8"	EG	Single set of 4 w/springs
007 1810867	13/32"	1"	1-3/8"	EG	Single set of 4 w/springs
007 1810950	1/8"	2-1/2"	1-3/4"	MG	Single set of 4 w/springs
007 1810954	9/16"	1"	1-11/32"	EG	Single set of 8 w/springs
007 1811039	1/2"	5/8"	1-3/8"	EG	Single set of 8 w/springs
007 1811041	1/2"	5/8"	1-3/8"	EG	Single set of 4 w/springs
007 1811088	9/32"	7/8"	3/4"	MG	Quad set of 2 w/springs
007 1811095	1/8"	2-1/2"	1-3/4"	MG	Single set of 4 w/springs
007 1811114	13/32"	1"	1-3/8"	EG	Single set of 4 w/springs
007 1811115	13/32"	1"	1-3/8"	EG	Single set of 8 w/springs
007 1811117	9/32"	7/8"	3/4"	MG	Quad set of 2 w/springs
007 1811178	9/16"	1"	1-11/32"	EG	Single set of 8 w/springs
007 1811354	1/2"	1-1/4"	1-3/8"	EG	Single set of 4 w/springs
007 1811364	9/16"	1"	1-11/32"	EG	Single set of 8 w/springs
007 1811367	1/2"	1-1/4"	1-3/8"	EG	Single set of 4 w/springs
007 1811467	1/8"	2-1/2"	1-3/4"	MG	Single set of 4 w/springs
007 1811482	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4 w/springs
007 1811712	9/16"	1"	1-11/32"	EG	Single set of 8 w/springs
007 1811733	1/2"	1-1/4"	1-3/8"	EG	Single set of 4 w/springs
007 1811944	5/8"	31/32"	1-5/16"	MG	Single set of 8
007 1811952	11/32"	1"	1"	EG	Single set of 4 w/springs

All parts meet or exceed OEM standards

10.25

Lift Truck Parts Professionals



ELECTRIC MOTORS electric motor brushes

OE #	Thickness	Width	Length	Grade	Brush
CLARK cont					
007 1813049	5/8"	1-1/4"	1-1/4"	MG	Single set of 4 w/springs
007 1813105	5/8"	31/32"	1-5/16"	MG	Single set of 8
007 1813153	11/32"	1"	1"	EG	Single set of 4 w/springs
007 1813160	35/64"	1"	1-1/2"	NG	Single set of 8
007 1813180	1/2"	1-1/4"	1-1/2"	NG	MEE-12U
007 1819404	13/32"	1"	1-3/8"	EG	Single set of 4
007 863087	11/32"	3/4"	11/16"	MG	Pair set of 2
007 863088	11/32"	5/8"	3/4"	MG	Quad set of 2
007 867063	11/32"	5/8"	3/4"	MG	Quad set of 2
007 867396	9/32"	1"	1-1/8"	MG	Single set of 4
007 878009	11/32"	3/4"	11/16"	MG	Pair set of 2
007 883802	9/32"	7/8"	3/4"	MG	Quad set of 2
007 884395	1/2"	5/8"	1-3/8"	EG	Single set of 8
007 886268	9/32"	3/4"	21/32"	MG	Single set of 4
007 888108	11/32"	5/8"	3/4"	MG	Quad set of 2
007 888375	11/32"	3/4"	1"	MG	Pair set of 2
007 892234	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
007 896793	11/32"	3/4"	11/16"	MG	Pair set of 2
007 898765	9/32"	3/4"	21/32"	MG	Single set of 4
007 899619	9/16"	1"	1-11/32"	EG	Single set of 8
007 905035	5/8"	1-3/4"	1-9/16"	EG	Pair
007 905878	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
007 906150	9/16"	1"	1-11/32"	EG	Single set of 8
007 906300	3/8"	13/16"	1-1/8"	EG	Single
007 906539	13/32"	1"	1-3/8"	MG	Single set of 4
007 906578	13/32"	1"	1-3/8"	EG	Single set of 4
007 906909	9/16"	1"	1-3/8"	MG	Single set of 8
007 907059	1/8"	2-1/2"	1-3/4"	MG	Single
007 907277	11/32"	11/16"	21/32"	EG	Single set of 2
007 907303	9/32"	7/8"	3/4"	MG	Single set of 4
007 909737	5/8"	2-1/2"	1-3/4"	MG	Single
007 909819	3/8"	13/16"	1-1/8"	EG	Single
007 910151	9/16"	1"	1-11/32"	EG	Single set of 8
007 912085	5/16"	1-1/4"	1-3/8"	MG	Single set of 4
007 912404	3/8"	1-1/4"	1-1/4"	MG	Single
007 912959	1/2"	27/32"	1-7/16"	NG	Single set of 4
007 913549	5/8"	2-1/2"	1-3/4"	EGT	Single
007 915934	5/8"	31/32"	1-5/16"	NG	Single
007 916111	11/32"	1"	1"	EG	Single
007 922571	1/2"	1-1/4"	1-3/4"	MG	Single
007 924045	11/32"	1"	1"	EG	Single
007 925242	1/2"	1-1/4"	1-1/2"	NG	MEE-12U
007 925291	1/2"	1-7/8"	1-5/8"	MG	Single
007 929285	1/2"	1-1/4"	1-1/2"	NG	MEE-12U
007 929325	11/32"	5/8"	5/8"	MG	Single set of 4
007 980766	13/32"	1"	1-3/8"	MG	Single set of 4
007 990093	11/32"	11/16"	5/8"	EG	Single set of 4
007 991024	13/32"	1"	1-3/8"	EG	Single set of 4
007 991251	11/32"	3/4"	21/32"	EG	Pair set of 2



OE #	Thickness	Width	Length	Grade	Brush
CLARK cont					
007 992317	11/32"	11/16"	5/8"	MG	Single set of 4
007 992473	11/32"	11/16"	5/8"	EG	Single set of 4
007 993353	11/32"	11/16"	5/8"	EG	Single set of 4
007 993431	1/8"	2-1/2"	1-3/4"	MG	Single
007 993443	1/2"	1-1/4"	1-11/32"	EG	Pair
007 993531	1/2"	5/8"	1-3/8"	EG	Single set of 8
007 993942	9/16"	1"	1-11/32"	EG	Single set of 8
007 994613	13/32"	1"	1-3/8"	EG	Single set of 4
007 997114	1/8"	2-1/2"	1-3/4"	MG	Single
007 998234	13/32"	1"	1-3/8"	EG	Single set of 4
007 998642	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
007 998646	1/2"	1-1/4"	1-3/8"	EG	Single set of 8
007 999158	9/32"	7/8"	3/4"	MG	Quad set of 2
007 999369	13/32"	1"	1-3/8"	EG	Single set of 4
007 999425	13/32"	1"	1-3/8"	EG	Single set of 4
007 999565	9/16"	1"	1-11/32"	EG	Single set of 8
CROWN					
002 020252-001	5/8"	31/32"	1-5/16"	NG	Single
002 020277-001	1/2"	31/32"	1-5/16"	NG	Single
002 072059	5/16"	3/4"	7/8"	MG	Single
002 073135	9/32"	3/4"	21/32"	MG	Single set of 4
002 074604	1/2"	5/8"	1-11/16"	MG	Single
002 074614	9/32"	7/8"	3/4"	MG	Quad set of 2
002 076482	11/32"	11/16"	5/8"	MG	Single set of 4
002 076819	11/32"	11/16"	5/8"	MG	Single set of 4
002 078454	1/2"	5/8"	1-3/8"	EG	Single set of 8
002 078505	1/2"	5/8"	1-3/8"	EG	Single set of 8
002 084304	11/32"	3/4"	21/32"	EG	Pair set of 2
002 084312	9/32"	3/4"	21/32"	MG	Single set of 4
002 084373	1/2"	1-1/4"	1-13/32"	NG	Single set of 4
002 084376	1/2"	1-1/4"	1-13/32"	NG	Single set of 4
002 084547	3/8"	13/16"	1-1/8"	EG	Single
002 087151	1/2"	1-1/4"	1-13/32"	NG	Single set of 4
002 087393	9/16"	1"	1-3/8"	NG	Single set of 8
002 087522	9/32"	7/8"	3/4"	MG	Quad set of 2
002 087713	1/2"	5/8"	1-3/8"	EG	Single set of 8
002 087885	1/2"	5/8"	1-1/2"	NG	Single
002 089718	11/32"	11/16"	5/8"	EG	Single set of 4
002 090276	1/2"	1-1/4"	1-13/32"	NG	Single set of 4
002 090286	11/32"	11/16"	1"	EG	Single set of 2 w/hdw
002 090857	1/2"	1-1/4"	1-3/4"	MG	Single
002 094567	11/32"	11/16"	5/8"	MG	Single set of 4
002 094843	13/32"	1"	1-3/8"	EG	Single set of 4
002 100730	1/2"	1-1/4"	1-1/2"	NG	Single set of 4
002 103252	11/32"	1"	1"	MG	Single set of 4
002 103842	1/2"	1-1/4"	1-3/4"	MG	Single
002 104868	1/2"	5/8"	1-1/2"	NG	Single
002 104888	17/32"	1"	1-1/2"	NG	Single set of 8
002 105561	3/8"	13/16"	1-1/8"	EG	Single
002 109953	1/2"	1-1/4"	1-3/4"	MG	Single



ELECTRIC MOTORS electric motor brushes

OE #	Thickness	Width	Length	Grade	Brush
CROWN cont					
002 110200	1/2"	1-1/8"	1-13/32"	NG	Pair
002 110245	5/8"	1-1/4"	1-5/16"	NG	Single set of 4
002 111136	5/8"	1-1/4"	1-1/4"	MG	Single w/bwi
002 111768	5/8"	1-1/8"	1-3/4"	EGT	Pair w/bwi
002 113328	5/8"	1-1/4"	1-5/16"	NG	Single set of 4
002 113498	3/8"	13/16"	1-1/8"	NG	Single w/bwi
002 114502	1/2"	1-1/4"	1-5/16"	NG	Single set of 4
002 114671	5/8"	31/32"	1-5/16"	MG	Single set of 4
002 116510	3/8"	13/16"	1-1/8"	EG	Single set of 4
002 116832	11/32"	3/4"	7/8"	MG	Pair set of 2
002 116961	5/8"	1-1/4"	1-1/2"	NG	Single set of 8
002 118913	1/2"	1-1/4"	1-1/8"	MG	Single set of 4
002 118930	3/8"	3/4"	1-9/64"	MG	Single set of 2
002 118942	5/8"	31/32"	1-1/4"	NG	Single set of 8 w/springs
002 121347	11/32"	3/4"	7/8"	MG	Pair set of 2
002 123761	11/32"	3/4"	7/8"	MG	Pair set of 2
002 123762	11/32"	3/4"	7/8"	MG	Pair set of 2
002 125789	11/32"	5/8"	5/8"	MG	Single set of 4
002 125921	5/8"	31/32"	1-1/4"	NG	Single set of 8 w/springs
NISSAN (DATSUN)					
057 29042-31K00	5/8"	7/8"	1-5/16"	NG	Single
057 29042-35H05	11/32"	3/4"	7/8"	EG	Single
057 29042-41H00	21/32"	1-7/32"	1-3/8"	NG	Pair
057 29042-41H05	21/32"	1-7/32"	1-3/8"	NG	Pair
057 29042-41H05G	21/32"	1-7/32"	1-3/8"	NG	Pair
057 29042-L4000	19/32"	1-9/16"	1-3/32"	EG	Single
057 29042-L4505	11/16"	1"	1-3/16"	MG	Single
057 29042-L7005	17/32"	1-13/32"	1-1/32"	MG	Single
057 29142-31K10	1/2"	1-1/4"	1-7/16"	NG	Single
057 29142-40H05	37/64"	1-9/16"	1-3/8"	MG	Single
057 29142-8G001	5/8"	1-1/8"	1-3/4"	EG	Pair w/bwi
057 29142-L4505-G	19/32"	1-3/16"	1"	MG	Single
057 29142-L7005	17/32"	1-13/32"	1-1/32"	MG	Single
057 29142-42H00	19/32"	1-3/64"	1-3/8"	NG	Pair
057 29142-42H05	19/32"	1-3/64"	1-3/8"	NG	Pair
057 29242-41H10	11/32"	1"	15/16"	NG	Single
057 29242-L4005	1/4"	13/16"	1"	MG	Single
057 29242-L8000	1/4"	13/16"	1"	MG	Single
GENERAL ELECTRIC					
336 324B8400ADP03	5/8"	1-1/8"	1-3/4"	EG	Pair
336 324B8400AEP03	1/2"	1-1/8"	1-1/2"	EG	Pair set of 4
336 324B8400ALP03	3/4"	1-1/8"	2"	EG	Pair set of 4
HYSTER					
001 A-13315	9/32"	3/4"	21/32"	MG	Single set of 4
001 79645	9/32"	3/4"	21/32"	MG	Single set of 4
001 139810	5/8"	1-1/4"	1-3/4"	MG	Pair
001 188390	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4
001 188466	1/2"	1-1/4"	1-1/2"	EG	Pair
001 208870	1/2"	1-1/4"	1-1/4"	EG	Single
001 219770	1/2"	31/32"	1-19/32"	EG	Single



OE #	Thickness	Width	Length	Grade	Brush
HYSTER cont					
001 219982	1/2"	31/32"	1-19/32"	EG	Single
001 228201	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
001 237906	1/2"	31/32"	1-19/32"	EG	Single
001 238757	11/32"	11/16"	5/8"	MG	Single set of 4
001 239877	9/16"	1"	1-3/8"	NG	Single
001 239882	9/16"	1"	1-3/8"	NG	Single
001 241365	11/32"	3/4"	21/32"	EG	Pair set of 2
001 245967	9/32"	1"	1-1/8"	MG	Single set of 4
001 259087	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4
001 264513	1/2"	31/32"	1-19/32"	EG	Single
001 264994	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4
001 274627	1/2"	31/32"	1-19/32"	EG	Single
001 286081	3/8"	13/16"	1-1/8"	EG	Single
001 288144	1/2"	1-1/4"	1-3/8"	EG	Single
001 288201	1/2"	1-1/4"	1-3/8"	EG	Single
001 289345	9/16"	1"	1-3/8"	NG	Single
001 294688	11/32"	11/16"	5/8"	MG	Single set of 4
001 314976	1/2"	5/8"	1-3/8"	EG	Single set of 8
001 314977	1/2"	1-1/4"	1-3/8"	EG	Single
001 317711	1/2"	1-1/4"	1-3/8"	EG	Single
001 328761	1/2"	1-1/8"	1-15/32"	EG	Pair
001 328914	9/32"	7/8"	3/4"	MG	Quad set of 2
001 332780	1/2"	1-1/8"	1-15/32"	EG	Pair
001 332781	5/8"	1-1/8"	1-3/4"	EG	Pair
001 350628	9/32"	7/8"	7/8"	NG	Single
001 362118	1/2"	1-1/8"	1-13/32"	EG	Pair
001 364585	1/2"	1-1/8"	1-1/2"	EG	Pair w/bwi
001 364591	1/2"	1-1/8"	1-15/32"	EG	Pair
001 364674	5/8"	1-1/8"	1-3/4"	EG	Pair w/bwi
001 365176	1/2"	1-1/4"	1-3/8"	EG	Single
001 365178	11/32"	11/16"	5/8"	MG	Single set of 4
001 365179	9/16"	1"	1-3/8"	NG	Single
001 365180	11/32"	3/4"	21/32"	EG	Pair set of 2
001 365182	1/2"	1-1/4"	1-3/8"	EG	Single
001 365184	1/2"	1-1/4"	1-3/8"	EG	Single
001 365185	1/2"	1-1/4"	1-3/8"	EG	Single
001 365186	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
001 366090	1/2"	1-1/8"	1-13/32"	EG	Pair w/bwi
001 366782	5/16"	1-1/4"	1-3/8"	MG	Single set of 4
001 374531	1/2"	1-1/8"	1-1/2"	EG	Pair w/bwi
001 384182	1/2"	5/8"	1-1/4"	NG	Triplet
001 842088	1/2"	1-1/4"	1-9/16"	NG	Single
001 1145554	13/32"	1"	1-3/8"	EG	Single set of 4
001 1150121	1/2"	5/8"	1-3/8"	EG	Single set of 8
001 1197197	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
001 1198253	9/32"	1"	1-1/8"	MG	Single set of 4
001 1198261	9/32"	1"	1-1/8"	MG	Single set of 4
001 1198706	11/32"	3/4"	11/16"	MG	Pair set of 2
001 1198954	9/16"	1"	1-3/8"	NG	Single

Lift Truck Parts Professionals



ELECTRIC MOTORS electric motor brushes

OE #	Thickness	Width	Length	Grade	Brush
HYSTER cont					
001 1199049	9/32"	3/4"	21/32"	MG	Single set of 4
001 1199131	5/8"	1-1/4"	1-3/4"	MG	Pair
001 1199601	13/32"	1"	1-3/8"	EG	Single set of 4
001 1303696	3/4"	1-1/8"	2"	EG	Pair w/bwi
001 1308831	1/2"	1-1/4"	1-3/4"	NG	Single
001 1309377	1/2"	5/8"	1-1/2"	MG	Single
001 1309388	3/8"	5/8"	1-1/8"	NG	Single
001 1309922	3/8"	5/8"	1-1/8"	NG	Single
001 1312816	1/2"	1-1/8"	1-13/32"	EG	Pair w/bwi
001 1335385	1/2"	1-1/4"	1-3/4"	MG	Single
001 1350918	5/8"	1-1/8"	1-3/4"	EGT	Pair w/bwi
001 1351198	9/32"	7/8"	3/4"	MG	Quad
001 1376980	1/2"	5/8"	1-1/2"	NG	Single
001 1389604	1/2"	1-1/4"	1-1/8"	NG	Single set of 2 w/bwi
001 1391772	3/8"	5/8"	1-1/8"	NG	Single
001 1452885	3/8"	5/8"	1-7/64"	NG	Single set of 4 w/bwi
001 1459684	3/8"	5/8"	1-1/8"	NG	Single
001 1459693	3/8"	5/8"	1-7/64"	NG	Single set of 4 w/bwi
001 1461570	1/2"	1-1/8"	1-1/2"	EG	Pair set of 4
001 1461816	5/8"	1-1/8"	1-3/4"	EG	Pair set of 4
001 1463273	11/32"	5/8"	5/8"	MG	Single set of 4
001 1483611	3/4"	1-1/8"	2"	EG	Pair set of 4
001 2013288	1/2"	1-1/8"	1-3/8"	EG	Pair
001 2013352	1/2"	1-1/4"	1-3/4"	NG	Single
001 2013525	1/2"	1-7/8"	1-5/8"	MG	Single
001 2013534	1/2"	1-7/8"	1-5/8"	MG	Single w/bwi
001 2013586	1/2"	1-1/8"	1-7/16"	MG	Single w/bwi
001 2026351	1/2"	1-1/4"	1-5/8"	NG	Single
001 2026352	1/2"	1-1/4"	1-5/8"	NG	Single w/bwi
001 2304437	11/32"	3/4"	7/8"	MG	Pair set of 2
001 2308015	11/32"	3/4"	1"	MG	Pair set of 2
001 2307487	3/8"	13/16"	1-1/8"	MG	Single
001 2308510	1/2"	1-1/4"	1-5/16"	MG	Single set of 4
001 2308516	1/2"	1-1/4"	1-1/4"	MG	Single set of 4 w/bwi
001 2310285	3/8"	13/16"	1-1/8"	EG	Single
KOMATSU					
065 FB1-51740-0170	11/32"	1-3/16"	1-5/16"	NG	Single
065 FB1-51740-0330	3/8"	25/32"	25/32"	MG	Single
065 FBO-51740-0381	5/8"	2-3/16"	1-5/16"	NG	Single
065 3BB-17-23830	5/8"	1-1/8"	1-3/4"	EG	Pair
065 36A291746AA003	5/8"	1-1/8"	1-3/4"	EG	Pair
mitsubishi					
059 9712006300	1/2"	1-1/8"	1-3/8"	EG	Pair w/bwi
059 9712500500	3/8"	5/8"	1-1/8"	NG	Single
059 9712106400	1/2"	1-7/8"	1-5/8"	MG	Single
PRIME MOVER					
066 167544	25/64"	25/32"	13/16"	NG	Pair
066 200021	13/32"	1"	1-3/8"	EG	Single set of 4
066 200185	9/32"	7/8"	3/4"	MG	Quad set of 2



OE #	Thickness	Width	Length	Grade	Brush
PRIME MOVER cont					
066 200188	9/32"	7/8"	3/4"	MG	Quad set of 2
066 200202	13/32"	1"	1-3/8"	EG	Single set of 4
066 200204	13/32"	1"	1-3/8"	MG	Single set of 4
066 200209	11/32"	11/16"	5/8"	MG	Single set of 4
066 200210	11/32"	11/16"	5/8"	MG	Single set of 4
066 200211	11/32"	11/16"	5/8"	EG	Single set of 4
066 200212	9/32"	3/4"	21/32"	MG	Single set of 4
066 200214	9/32"	7/8"	3/4"	MG	Single set of 4
066 200215	9/32"	3/4"	21/32"	MG	Single set of 4
066 200217	11/32"	3/4"	11/16"	MG	Pair set of 2
066 200231	1/2"	1-1/4"	1-13/32"	NG	Single set of 4
066 200235	1/2"	5/8"	1-3/8"	EG	Single set of 8
066 200239	9/16"	1"	1-11/32"	EG	Single set of 8
066 200248	13/32"	1"	1-3/8"	EG	Single set of 4
066 202028	3/8"	1-1/4"	1-1/4"	MG	Single
066 202340	1/2"	27/32"	1-7/16"	NG	Single set of 4
066 22355	11/32"	1/2"	1"	NG	Single
066 24780	25/64"	25/32"	13/16"	MG	Single set of 4
066 27548	25/64"	25/32"	13/16"	NG	Pair
066 300430-000	5/8"	31/32"	1-5/16"	NG	Single
066 301327-005	1/2"	1-1/4"	1-5/8"	NG	Single
066 304272-000	5/8"	31/32"	1-5/16"	MG	Single
066 EMBD-1418-S	9/32"	7/8"	3/4"	MG	Quad set of 2
066 EMBD-1512-S	9/32"	7/8"	3/4"	MG	Quad set of 2
066 EMCP-2012-ES	13/32"	1"	1-3/8"	EG	Single set of 4
066 EMCP-2012-FS	13/32"	1"	1-3/8"	MG	Single set of 4
066 EMCP-2012-MS	13/32"	1"	1-3/8"	MG	Single set of 4
066 EMDL-1118-BS	11/32"	11/16"	5/8"	MG	Single set of 4
066 EMDL-1118-CS	11/32"	11/16"	5/8"	EG	Single set of 4
066 EMDL-2012-S	9/32"	21/32"	3/4"	MG	Single set of 4
066 EMDL-2012ES	9/32"	7/8"	3/4"	MG	Single set of 4
066 EMDL-2012-FS	9/32"	21/32"	3/4"	MG	Single set of 4
066 EMDR-2012-BS	11/32"	3/4"	11/16"	MG	Pair set of 2
066 EMEE-1012-AS	1/2"	1-1/2"	1-13/32"	NG	Single set of 4
066 EMEE-1012-BS	1/2"	1-1/4"	1-13/32"	NG	Single set of 4
066 EMEE-1012-CS	1/2"	1-1/4"	1-13/32"	NG	Single set of 4
066 EMGF-1012-S	1/2"	5/8"	1-3/8"	EG	Single set of 8
066 EMGP-1012JS	9/16"	1"	1-11/32"	EG	Single set of 8
RAYMOND					
015 560-010/10	11/32"	3/4"	11/16"	MG	Pair set of 2
015 560-204/334	11/32"	1"	1"	MG	Single set of 4
015 560-213/07	11/32"	5/8"	5/8"	MG	Single set of 4
015 570-015/08	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
015 570-019/03	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
015 570-021/06	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
015 570-026/01	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
015 570-027/08	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4
015 570-028/01	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
015 570-029/07	1/2"	1-1/4"	1-1/2"	MG	Pair set of 4

Lift Truck Parts Professionals



ELECTRIC MOTORS electric motor brushes

OE #	Thickness	Width	Length	Grade	Brush
RAYMOND cont					
015 570-109/03	5/16"	5/8"	1-1/4"	MG	Single set of 4
015 570-112/10	3/8"	7/8"	1-1/4"	MG	Single set of 4
015 570-115/116	1/2"	5/8"	1-1/2"	NG	Single set of 4
015 570-205/04	13/32"	1"	1-3/8"	EG	Single set of 4
015 570-206/03	13/32"	1"	1-3/8"	MG	Single set of 4
015 570-210/03	9/32"	7/8"	7/8"	MG	Single set of 2
015 570-214/10	3/8"	3/4"	7/8"	EG	Single set of 8
015 570-215/04	13/32"	1"	1-3/8"	MG	Single set of 4
015 570-215/120	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
015 570-217/117	5/8"	1"	1-1/4"	MG	Single set of 4
015 570-217/211	9/16"	1"	1-11/32"	EG	Single set of 8
015 570-222/427	3/8"	25/32"	1-1/4"	MG	Single set of 4
015 570-235/513	5/8"	31/32"	1-5/16"	MG	Single set of 4
015 570-236/114	17/32"	1"	1-1/2"	NG	Single set of 8
015 570-236/218	1/2"	1-1/8"	1-7/16"	NG	Pair set of 4
015 570-236/431	7/16"	25/32"	1-1/4"	NG	Single set of 8
015 570-236/514	5/8"	31/32"	1-5/16"	NG	Single set of 4
015 570-237/218	9/32"	7/8"	7/8"	MG	Single set of 2
015 570-251/217	5/16"	1-1/4"	1-3/8"	MG	Single set of 4
015 570-252/517	5/8"	1-1/4"	1-5/16"	NG	Single set of 4
015 570-260/216	9/16"	1"	1-5/8"	NG	Single set of 8
015 570-260/511	5/8"	31/32"	1-1/4"	MG	Single set of 8
015 570-268/515	1/2"	1-1/4"	1-1/8"	MG	Single set of 4
015 570-295/514	5/8"	31/32"	1-5/16"	NG	Single set of 4
015 570-358/461	3/8"	13/16"	1-1/8"	NG	Single set of 4
015 570-409/01	9/32"	5/8"	3/4"	MG	Quad set of 2
015 570-410/02	9/32"	3/4"	21/32"	MG	Single set of 4
015 570-411/01	1/2"	5/8"	1-1/8"	EG	Single set of 8
015 570-413/03	1/2"	5/8"	1-1/8"	EG	Single set of 8
015 570-414/01	13/32"	1"	1-3/8"	EG	Single set of 4
015 570-415/04	1/2"	5/8"	1-3/8"	EG	Single set of 8
015 570-416/06	9/32"	7/8"	3/4"	MG	Quad set of 2
015 570-424/25	1/2"	1-1/4"	1-3/4"	MG	Single set of 4
015 570-429/02	11/32"	11/16"	5/8"	MG	Single set of 4
015 570-431/07	9/16"	1"	1-11/32"	EG	Single set of 8
015 570-433/02	13/32"	1"	1-3/8"	EG	Single set of 8
015 570-433/214	13/32"	1"	1-3/8"	EG	Single set of 8
015 570-435/112	1/2"	5/8"	1-1/2"	NG	Single set of 4
015 570-436/04	13/32"	1"	1-3/8"	EG	Single set of 4
015 570-437/02	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
015 570-437/211	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
015 570-446/05	5/16"	1-1/4"	1-3/8"	MG	Single set of 4
015 570-449/513	5/8"	31/32"	1-5/16"	NG	Single set of 4
015 570-804/01	1/2"	11/16"	1-1/4"	MG	Single set of 4
015 570-804/02	1/2"	11/16"	1-1/4"	MG	Single set of 4
015 570-807/06	1/2"	11/16"	1-17/32"	MG	Single set of 4
015 570-812/06	1/2"	11/16"	1-1/4"	MG	Single set of 2
015 570-813/02	1/2"	11/16"	1-7/16"	EG	Single set of 2



OE #	Thickness	Width	Length	Grade	Brush
RAYMOND cont					
015 570-825/08	1/2"	11/16"	1-1/4"	MG	Single set of 4
015 570-827/16	1/2"	11/16"	1-7/16"	EG	Single set of 2
015 570-835/07	1/2"	11/16"	1-7/16"	EG	Single set of 6
015 570-842/01	1/2"	11/16"	1-7/16"	EG	Single set of 6
015 581-101	11/32"	3/4"	11/16"	MG	Pair set of 2
015 581-104	11/32"	5/8"	3/4"	MG	Quad set of 2
015 581-112	7/16"	1-1/4"	1-3/16"	MG	Single set of 4
015 581-113	7/16"	1-1/4"	1-3/16"	MG	Single set of 4
015 581-114	7/16"	1-1/4"	1-3/16"	MG	Single set of 4
015 581-116	7/16"	1-1/4"	1-13/32"	EG	Single set of 4
SCHRECK					
020 33-11400	9/32"	1"	1-1/8"	MG	Single set of 4
020 33-11401	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
020 33-11402	11/32"	3/4"	11/16"	MG	Pair set of 2
020 33-11403	11/32"	3/4"	11/16"	MG	Pair set of 2
020 33-11404	9/32"	3/4"	21/32"	MG	Single set of 4
020 33-11405	11/32"	11/16"	5/8"	EG	Single set of 4
020 33-11407	9/32"	3/4"	21/32"	MG	Single set of 4
020 33-11408	9/32"	7/8"	3/4"	MG	Quad set of 2
020 33-11409	9/16"	1"	1-11/32"	EG	Single set of 8
020 33-11411	9/16"	1"	1-11/32"	EG	Single set of 8
020 33-11412	11/32"	3/4"	21/32"	EG	Pair set of 2
020 33-11413	13/32"	1"	1-3/8"	MG	Single set of 4
020 33-11415	11/32"	11/16"	5/8"	MG	Single set of 4
020 33-11416	1/2"	5/8"	1-3/8"	EG	Single set of 8
020 33-11417	11/32"	3/4"	21/32"	EG	Pair set of 2
020 33-11418	11/32"	3/4"	1"	MG	Pair set of 2
020 33-11419	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
020 33-11420	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
020 33-11422	9/32"	1"	1-1/8"	MG	Single set of 4
020 33-11425	13/32"	1"	1-3/8"	MG	Single set of 4
020 33-11427	9/16"	1"	1-11/32"	EG	Single set of 8
020 33-11428	11/32"	3/4"	11/16"	MG	Pair set of 2
020 33-11430	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
020 33-11431	13/32"	1"	1-3/8"	MG	Single set of 4
020 33-11432	1/2"	5/8"	1-3/8"	EG	Single set of 8
020 33-11433	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
020 33-11434	1/2"	1-1/4"	1-3/8"	EG	Single set of 4
TCM					
166 AB-MP405-1301	1/4"	13/16"	1"	MG	Single
166 AB-MP405-3301	9/32"	37/64"	15/16"	EG	Single
166 AB-MP480-1301	19/32"	1-9/16"	1"	MG	Single
166 AB-MT475-2301	19/32"	1-9/16"	1-3/32"	EG	Single
166 ABMT-4901301	19/32"	1-9/16"	1-3/32"	EG	Single
166 AB-MT490-3301	19/32"	1-9/16"	1-3/32"	EG	Single
166 EMDL-1118	11/32"	11/16"	5/8"	MG	Single set of 4
166 FA72E1-05112	1/2"	1-1/8"	1-1/2"	EG	Pair w/bwi
166 FA72E1-05382	1/2"	1-7/8"	1-5/8"	MG	Single w/bwi
166 FA72E1-05672	1/2"	5/8"	1-1/2"	NG	Single



ELECTRIC MOTORS electric motor brushes

OE #	Thickness	Width	Length	Grade	Brush
TCM cont					
166 200209	11/32"	11/16"	5/8"	MG	Single set of 4
CATERPILLAR (TOWMOTOR)					
009 A000001204	1/2"	1-1/4"	1-1/8"	NG	Single set of 2 w/bwi
009 GS0000918	5/8"	31/32"	1-5/16"	MG	Single set of 8
009 NA012195	1/2"	1-1/4"	1-1/8"	MG	Single set of 4
009 0331075	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4
009 0333606	1/2"	1-1/4"	1-1/2"	MG	Pair
009 0352089	3/8"	3/4"	7/8"	EG	Single set of 8
009 0354751	5/8"	1-1/4"	1-5/8"	EG	Pair set of 4
009 0358267	1/2"	1-1/4"	1-5/8"	EG	Single set of 4
009 0358318	1/2"	1"	1-5/8"	NG	Pair set of 4
009 0358319	1/2"	1"	1-5/8"	NG	Pair set of 4
009 0358892	3/8"	3/4"	7/8"	EG	Single set of 8
009 0361767	5/8"	1-1/4"	1-5/8"	EG	Pair set of 4
009 0368808	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4
009 0379320	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4
009 0383799	5/8"	1"	1-5/8"	NG	Pair set of 4
009 0386427	3/8"	3/4"	7/8"	EG	Single set of 8
009 0393872	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4
009 0393873	1/2"	1"	1-5/8"	NG	Pair set of 4
009 0393874	1/2"	1-1/4"	1-5/8"	EG	Single set of 4
009 0393876	5/8"	1"	1-5/8"	NG	Pair set of 4
009 0394943	5/8"	1-1/4"	1-5/8"	EG	Pair set of 4
009 0395200	5/8"	1-1/4"	1-3/4"	EG	Pair set of 4
009 0399138	1/2"	1"	1-5/8"	NG	Pair set of 4
009 0916033	1/2"	1-9/16"	1-7/8"	MG	Single set of 4
009 0916183	1/2"	1"	1-3/4"	EG	Single set of 8 w/bwi
009 0916233	1/2"	1-9/16"	1-7/8"	NG	Single set of 4 w/bwi
009 1009182	11/32"	1"	1"	MG	Single set of 4
009 1009186	5/8"	31/32"	1-5/16"	NG	Single set of 4
009 1036505	5/8"	31/32"	1-5/16"	NG	Single set of 4
009 1036542	1/2"	1-1/4"	1-3/4"	NG	Single set of 4
009 1050034	7/16"	25/32"	1-1/4"	NG	Single set of 8
009 1050042	7/16"	25/32"	1-1/4"	NG	Single set of 8
009 9712006300	1/2"	1-1/8"	1-3/8"	EG	Pair w/bwi
009 9712106400	1/2"	1-7/8"	1-5/8"	MG	Single
009 9722007700	1/2"	1-1/8"	1-1/2"	EG	Pair w/bwi
TOYOTA					
058 00590-40635-71	11/32"	5/8"	5/8"	MG	Single set of 4
058 14121-23200-71	5/8"	1-9/16"	1-3/8"	NG	Single
058 14112-12240-71	13/32"	3/4"	1"	NG	Single
058 14124-21400-71	5/8"	1-9/16"	1-11/32"	NG	Single
058 14181-11480-71	13/32"	3/4"	1"	NG	Single
058 14181-13200-71	9/16"	1-9/16"	1-11/32"	NG	Single
058 14311-12550-71	1/2"	1-9/16"	1-1/16"	NG	Single
058 14316-10980-71	35/64"	1-5/16"	1-1/4"	MG	Single
058 14316-81100-71	5/16"	25/32"	7/8"	MG	Single
058 14324-11340-71	1/2"	1-9/16"	1-1/16"	NG	Single
058 14324-21400-71	9/16"	1-9/16"	1-11/32"	NG	Single



OE #	Thickness	Width	Length	Grade	Brush
TOYOTA cont					
058 14326-31560-71	9/16"	1-9/16"	1-3/8"	MG	Single
058 14326-31561-71	9/16"	1-9/16"	1-11/32"	NG	Single
058 14351-12190-71	9/16"	1-9/16"	1-1/4"	MG	Single
058 14512-22500-71	5/16"	25/32"	7/8"	EG	Single
058 14512-22501-71	5/16"	1-3/16"	1"	EG	Single
058 14515-11590-71	1/2"	25/32"	1-1/32"	NG	Single
058 14543-U1090-71	3/8"	5/8"	1-1/8"	NG	Single
058 14572-13300-71	5/16"	1-3/16"	1"	EG	Single
YALE					
003 0140134AX	11/32"	3/4"	11/16"	MG	Pair set of 2
003 019221300	11/32"	3/4"	11/16"	MG	Pair set of 2
003 019221600	1/2"	1-1/4"	1-5/8"	EG	Pair set of 4
003 019221800	11/32"	5/8"	3/4"	MG	Quad set of 2
003 019221900	3/8"	7/8"	1"	MG	Single set of 4
003 019231100	1/2"	2-3/32"	1-3/4"	EG	Single set of 4
003 031979900	11/32"	3/4"	11/16"	MG	Pair set of 2
003 032330900	11/32"	5/8"	3/4"	MG	Quad set of 2
003 054038100	1/2"	5/8"	1-11/16"	MG	Single set of 4
003 054915700	1/2"	5/8"	1-11/16"	MG	Single set of 4
003 055760700	1/2"	5/8"	1-11/16"	MG	Single set of 4
003 057073400	11/32"	3/4"	11/16"	MG	Pair set of 2
003 057218000	3/8"	7/8"	1"	MG	Single set of 4
003 057457400	9/32"	3/4"	21/32"	MG	Single set of 4
003 059230100	11/32"	3/4"	11/16"	MG	Pair set of 2
003 060286000	11/32"	3/4"	11/16"	MG	Pair set of 2
003 061499400	9/32"	3/4"	21/32"	MG	Single set of 4
003 063998800	1/2"	5/8"	1-11/16"	MG	Single set of 4
003 065958500	1/2"	1-1/4"	1-5/8"	EG	Pair set of 4
003 1169404DG	11/32"	3/4"	11/16"	MG	Pair set of 2
003 1169404DX	9/32"	7/8"	3/4"	MG	Quad set of 2
003 11697810A	11/32"	3/4"	11/16"	MG	Pair set of 2
003 1214566AD	9/32"	3/4"	21/32"	MG	Single set of 4
003 129017001	11/32"	3/4"	11/16"	MG	Pair set of 2
003 129017006	11/32"	3/4"	11/16"	MG	Pair set of 2
003 129159026	9/32"	7/8"	3/4"	MG	Quad set of 2
003 129159031	11/32"	5/8"	3/4"	MG	Quad set of 2
003 129159038	13/32"	1"	1-3/8"	EG	Single set of 4
003 129159070	13/32"	1"	1-3/8"	EG	Single set of 4
003 135650101	3/8"	7/8"	1"	EG	Single set of 4
003 135650102	1/2"	2-3/32"	1-3/4"	EG	Single set of 4
003 135650103	13/32"	1"	1-3/8"	EG	Single set of 4
003 135650104	13/32"	1"	1-3/8"	EG	Single set of 4
003 135650106	1/2"	1-1/4"	1-5/8"	EG	Pair set of 4
003 135650107	3/8"	7/8"	1"	EG	Single set of 4
003 135650108	3/8"	1-3/4"	1"	EG	Single set of 4
003 135650109	1/2"	2-3/32"	1-3/4"	EG	Single
003 135650110	3/8"	7/8"	1"	NG	Pair set of 2
003 135650111	1/2"	2-3/32"	1-3/4"	EG	Pair set of 2
003 135650113	3/8"	1-3/4"	1"	EG	Pair set of 2

Lift Truck Parts Professionals



ELECTRIC MOTORS electric motor brushes

OE #	Thickness	Width	Length	Grade	Brush
YALE cont					
003 135650115	1/2"	2-3/32"	1-3/4"	EG	Single set of 4
003 135650116	3/8"	7/8"	1"	NG	Pair set of 2
003 135650119	11/32"	3/4"	7/8"	EG	Single set of 2
003 135650120	1/2"	2-3/32"	1-3/4"	EG	Pair set of 2
003 135650121	1/2"	1-1/4"	1-5/8"	NG	Pair set of 4
003 135650125	3/8"	7/8"	1"	NG	Pair set of 2
003 135650126	11/32"	3/4"	7/8"	EG	Single set of 2
003 135650127	1/2"	1-1/4"	1-5/16"	MG	Single set of 4
003 135650128	3/8"	1-3/4"	1"	EG	Pair set of 2
003 135650130	1/2"	1-1/4"	1-5/16"	MG	Single set of 4
003 135650131	3/8"	7/8"	1"	NG	Pair set of 2
003 135650132	3/8"	7/8"	1"	NG	Pair set of 2
003 135650133	1/2"	1-1/4"	1-5/8"	NG	Pair set of 4
003 135650134	1/2"	1-1/4"	1-5/8"	EG	Pair set of 4
003 135650135	3/8"	7/8"	1"	NG	Pair set of 2
003 135650136	11/32"	3/4"	7/8"	EG	Single set of 2
003 135650137	1/2"	2-3/32"	1-3/4"	EG	Pair set of 2
003 135650144	1/2"	1-1/4"	1-5/16"	MG	Single
003 135650146	3/8"	7/8"	1"	NG	Pair set of 2
003 138588102	1/2"	1-1/4"	1-5/8"	EG	Pair set of 4
003 138588104	3/8"	7/8"	1"	EG	Single set of 4
003 138588107	1/2"	1-1/4"	1-5/8"	EG	Pair set of 4
003 139781105	1/2"	1-1/4"	1-1/2"	EG	Pair set of 4
003 220023420	11/32"	1"	1"	EG	Single
003 220071147	1/2"	1-9/16"	1-1/16"	NG	Single
003 220075064	1/2"	1-1/8"	1-13/32"	EG	Pair set of 4
003 296321237	3/8"	1-1/4"	1-17/32"	MG	Single
003 500838400	9/32"	7/8"	3/4"	MG	Quad set of 2
003 502330800	11/32"	3/4"	11/16"	MG	Pair set of 2
003 502510800	3/8"	1-3/4"	1"	EG	Single set of 4
003 504229255	1/2"	1-1/8"	1-13/32"	EG	Pair set of 4
003 504229274	1/2"	1-1/8"	1-13/32"	EG	Pair set of 4
003 504230259	1/2"	5/8"	1-1/2"	NG	Single
003 504237261	1/2"	5/8"	1-1/2"	NG	Single
003 504574286	1/2"	1-7/8"	1-5/8"	MG	Single
003 505106800	11/32"	3/4"	11/16"	MG	Pair set of 2
003 506210800	9/32"	3/4"	21/32"	MG	Single set of 4
003 506271800	11/32"	11/16"	21/32"	EG	Single set of 2
003 506605800	9/32"	7/8"	3/4"	MG	Quad set of 2
003 507624800	9/16"	1"	1-11/32"	EG	Single set of 8
003 509016801	13/32"	1"	1-3/8"	EG	Single set of 4
003 509016802	11/32"	3/4"	1"	MG	Pair set of 2
003 509016803	13/32"	1"	1-3/8"	EG	Single set of 4
003 509016805	13/32"	1"	1-3/8"	EG	Single set of 4
003 509016811	13/32"	1"	1-3/8"	EG	Single set of 4
003 509016814	11/32"	3/4"	21/32"	EG	Pair set of 2
003 509016816	11/32"	3/4"	21/32"	EG	Pair set of 2
003 509016819	13/32"	1"	1-3/8"	EG	Single set of 4
003 509016821	9/32"	7/8"	3/4"	MG	Quad set of 2



OE #	Thickness	Width	Length	Grade	Brush
YALE cont					
003 509016822	11/32"	11/16"	5/8"	MG	Single set of 4
003 509016823	11/32"	11/16"	5/8"	MG	Single set of 4
003 509016825	11/32"	3/4"	1"	MG	Pair set of 2
003 509016826	11/32"	3/4"	7/8"	MG	Pair set of 2
003 511272800	1/2"	5/8"	1-3/4"	EG	Single set of 8
003 512772800	3/8"	1-3/4"	1"	EG	Single set of 4
003 516466019	11/32"	3/4"	7/8"	NG	Pair set of 2
003 518264802	3/8"	13/16"	1"	EG	Single set of 4
003 518264825	3/8"	13/16"	1-1/8"	EG	Single set of 4
003 518805656	1/2"	5/8"	1-1/2"	NG	Single
003 519461000	1/2"	2-3/32"	1-3/4"	EG	Pair set of 2
003 519466001	3/8"	7/8"	1"	NG	Pair set of 2
003 519466002	1/2"	2-3/32"	1-3/4"	EG	Single set of 4
003 519466003	3/8"	1-3/4"	1"	EG	Pair set of 2
003 519466005	1/2"	2-3/32"	1-3/4"	EG	Single set of 4
003 519466006	1/2"	1-1/4"	1-5/8"	EG	Pair set of 4
003 519466007	3/8"	7/8"	1"	NG	Pair set of 2
003 519466008	3/8"	7/8"	1"	NG	Pair set of 2
003 519466009	11/32"	3/4"	7/8"	EG	Single set of 2
003 519466010	1/2"	2-3/32"	1-3/4"	EG	Single set of 4 w/bwi
003 519466011	1/2"	2-3/32"	1-3/4"	EG	Pair set of 2
003 519466015	11/16"	2-3/32"	1-3/4"	NG	Pair set of 2 w/bwi
003 519466016	1/2"	1-1/4"	1-5/8"	NG	Pair set of 4
003 519466020	3/8"	1-3/4"	1"	NG	Pair set of 2 w/bwi
003 519577814	3/8"	1-1/4"	1-1/4"	MG	Single
003 519578824	3/8"	1-1/4"	1-1/4"	EG	Single
003 519616815	11/32"	5/8"	5/8"	MG	Single set of 4
003 519745813	1/2"	1-1/8"	1-13/32"	EG	Pair
003 520296802	11/32"	3/4"	7/8"	MG	Pair set of 2
003 520296809	11/32"	3/4"	1"	MG	Pair set of 2
003 520399801	3/8"	7/8"	1"	EG	Single set of 4
003 520399802	13/32"	1"	1-3/8"	EG	Single set of 4
003 520399803	3/8"	1-3/4"	1"	EG	Single set of 4
003 520399804	1/2"	2-3/32"	1-3/4"	EG	Single
003 520399805	3/8"	1-3/4"	1"	EG	Pair set of 2
003 520399806	3/8"	7/8"	1"	NG	Pair set of 2
003 520399807	1/2"	1-1/4"	1-5/8"	EG	Pair set of 4
003 520399808	1/2"	2-3/32"	1-3/4"	EG	Pair set of 2
003 520399809	1/2"	1-1/4"	1-5/8"	NG	Pair set of 4
003 520399810	11/16"	2-3/32"	1-3/4"	NG	Pair set of 2
003 520399811	11/32"	3/4"	7/8"	NG	Pair set of 2
003 520399812	3/8"	7/8"	1"	NG	Pair set of 2
003 520399813	11/32"	3/4"	7/8"	EG	Single set of 2
003 520399814	1/2"	1-1/4"	1-5/16"	MG	Single set of 4
003 520399815	11/16"	2-3/32"	1-3/4"	NG	Pair set of 2 w/bwi
003 520399816	11/16"	2-3/32"	1-3/4"	NG	Pair set of 2 w/bwi
003 520399817	3/8"	1-3/4"	1"	NG	Pair set of 2 w/bwi
003 520399818	3/8"	7/8"	1"	NG	Pair set of 2
003 520399819	1/2"	1-1/4"	1-5/16"	MG	Single set of 4 w/bwi



ELECTRIC MOTORS electric motor brushes

OE #	Thickness	Width	Length	Grade	Brush
YALE cont					
003 520399820	1/2"	1-1/4"	1-5/8"	NG	Pair set of 4 w/bwi
003 520399821	1/2"	2-3/32"	1-3/4"	NG	Pair set of 2
003 520399823	1/2"	2-3/32"	1-3/4"	NG	Pair set of 2 w/bwi
003 520399824	3/8"	7/8"	1"	NG	Pair set of 2
003 520399825	3/8"	1-3/4"	1"	EG	Pair set of 2
003 520399826	11/32"	3/4"	7/8"	NG	Pair set of 2
003 521558002	3/8"	1-1/4"	1-1/4"	EG	Single
003 580000963	3/8"	5/8"	1-7/64"	NG	Single set of 4 w/bwi
003 580007606	3/8"	5/8"	1-7/64"	NG	Single set of 4 w/bwi
003 580010369	1/2"	1-1/8"	1-1/2"	EG	Pair set of 4
003 580010607	5/8"	1-1/8"	1-3/4"	EG	Pair set of 4
003 580018812	3/4"	1-1/8"	2"	EG	Pair set of 4
003 720640100	3/8"	7/8"	1"	MG	Single set of 4
003 720651100	3/8"	7/8"	1"	MG	Single set of 4
003 720678100	3/8"	1-3/4"	1"	EG	Single set of 4
003 720734100	3/8"	1-3/4"	1"	EG	Single set of 4
003 721287100	3/8"	7/8"	1"	MG	Single set of 4
003 721288100	3/8"	7/8"	1"	MG	Single set of 4
003 721288101	3/8"	7/8"	1"	EG	Single set of 4
003 721290100	3/8"	7/8"	1"	MG	Single set of 4
003 721304100	1/2"	2-3/32"	1-3/4"	EG	Single set of 4
003 721309100	1/2"	1-1/4"	1-5/8"	EG	Pair set of 4
003 721337100	1/2"	2-3/32"	1-3/4"	EG	Single set of 4
003 723791144	1/2"	1-1/4"	1-1/8"	NG	Single set of 2 w/bwi



ELECTRIC MOTORS

electric motor brush kits

000 339-1002K

1



BRUSH KIT WITH SPRINGS

000 339-1004

2



BRUSH SET 2 QUADS

000 339-10142

3



BRUSH SET 4

000 339-10154

4



BRUSH SET 4

000 339-10184

5



BRUSH SET 4

000 339-10222

6



BRUSH SET 2 PAIR

000 339-10254

7



BRUSH SET 4

000 339-10254NG

8



BRUSH SET 4



ELECTRIC MOTORS

electric motor brush kits

000 339-1025K

1



BRUSH KIT WITH SPRINGS

000 339-10264

2



BRUSH SET 4 PAIR

000 339-10264BWINT

3



BRUSH SET 4 PAIR WITH BWI NO TERMINAL

000 339-10272NGBWI

4



BRUSH SET 2 PAIR WITH BWI

000 339-1027MG

5



BRUSH SET 2 PAIR

000 339-1032

6



BRUSH SET 8

000 339-10324

7



BRUSH SET 4

000 339-10324BWI

8



BRUSH SET 4 W/BWI



ELECTRIC MOTORS electric motor brush kits

000 339-10344

1



BRUSH SET 4

000 339-10344BWI

2



NEW
Catalog Item!

BRUSH SET OF 4 W/BWI

000 339-1037K

3



NEW
Catalog Item!

BRUSH KIT WITH SPRINGS

000 339-10374

4



NEW
Catalog Item!

BRUSH SET OF 4

000 339-10384

5



BRUSH SET 4

000 339-1038K

6



BRUSH KIT WITH SPRINGS

000 339-10444

7



BRUSH SET 4

000 339-10462

8



BRUSH SET 2 PAIR



ELECTRIC MOTORS

electric motor brush kits

000 339-10462NGBWI

1



BRUSH SET 2 PAIR W/BWI

000 339-10462NGBWINT

2



BRUSH SET 2 PAIR WITH BWI NO TERMINAL

000 339-1050

3



BRUSH SET 4

000 339-10672

4



BRUSH SET 2 PAIR

000 339-10672NG

5



BRUSH SET 2 PAIR

000 339-1076K

6



BRUSH KIT WITH SPRINGS

000 339-1145

7



BRUSH KIT WITH SPRINGS

000 339-1548

8



BRUSH SET 4



ELECTRIC MOTORS

electric motor brush kits

000 339-1570

1



BRUSH SET 2 QUADS

000 339-1592

2



BRUSH SET 4

000 339-1594

3



BRUSH SET 2 PAIR

000 339-1596

4



BRUSH SET 4

000 339-1644

5



BRUSH SET 8

000 339-1722

6



BRUSH SET 2

000 339-1726

7



BRUSH SET 4

000 339-1735

8



BRUSH SET 4



ELECTRIC MOTORS

electric motor brush kits

000 339-1780

1



BRUSH SET 8

000 339-1792

2



BRUSH SET 4

000 339-1801

3



BRUSH SET 4

000 339-1804

4



BRUSH SET 4

000 339-1805

5



BRUSH SET 12

000 339-1817

6



BRUSH SET 8

000 339-1824

7



BRUSH SET 2 QUADS

000 339-1827

8



BRUSH SET 4



ELECTRIC MOTORS

electric motor brush kits

000 339-20854

1



BRUSH SET 4

000 339-21024

2



BRUSH SET 4

000 339-2102K

3



BRUSH KIT WITH SPRINGS

000 339-21048

4



BRUSH SET 8

000 339-21294

5



BRUSH SET 4 PAIR

000 339-21394

6



BRUSH SET 4 PAIR

000 339-21544

7



BRUSH SET 4

000 339-21554

8



BRUSH SET 4



ELECTRIC MOTORS

electric motor brush kits

000 339-21784

1



BRUSH SET 4

000 339-2180K

2



BRUSH KIT W/HARDWARE

000 339-2207

3



BRUSH SET 4 PAIR

000 339-22252

4



BRUSH SET 2 PAIR

000 339-22252H

5



BRUSH SET 2 PAIR

000 339-22252T

6



NEW
Catalog Item!

BRUSH SET OF 2 PAIR W/BWI

000 339-22322

7



BRUSH SET 2

000 339-22384

8



BRUSH SET 4 PAIR



ELECTRIC MOTORS electric motor brush kits

000 339-22434

1



BRUSH SET 4

000 339-2250K

2



BRUSH KIT WITH SPRINGS

000 339-22564

3



BRUSH SET 4

000 339-2260K

4



BRUSH KIT WITH SPRINGS

000 339-22614

5



BRUSH SET 4

000 339-22614L

6



BRUSH SET 4

000 339-2261K

7



BRUSH KIT WITH SPRINGS

000 339-22624

8



BRUSH SET 4



ELECTRIC MOTORS

electric motor brush kits

000 339-22644

1



BRUSH SET 4

000 339-22644NG

2



BRUSH SET 4

000 339-23204

3



BRUSH SET 4 PAIR

000 339-23204NG

4



BRUSH SET 4 PAIR

000 339-23402

5



BRUSH SET 2

000 339-23441

6



NEW
Catalog Item!

BRUSH & SPRING

000 339-23444

7



BRUSH SET 4

000 339-23444NG

8



BRUSH SET 4



ELECTRIC MOTORS electric motor brush kits

000 339-23448

1



BRUSH SET 8

000 339-23448K

2



BRUSH KIT WITH SPRINGS

000 339-23448MG

3



NEW
Catalog Item!

BRUSH SET OF 8

000 339-23448NG

4



BRUSH SET 8

000 339-2344K

5



BRUSH KIT WITH SPRINGS

000 339-23514

6



BRUSH SET 4

000 339-2351K

7



BRUSH KIT WITH SPRINGS

000 339-28038

8



BRUSH SET 8



ELECTRIC MOTORS

electric motor brush kits

000 339-28078

1



BRUSH SET 8

000 339-28081BWI

2



BRUSH SET 2 WITH BWI

000 339-28094

3



BRUSH SET 4

000 339-2813K

4



BRUSH KIT WITH SPRINGS

000 339-28204

5



BRUSH SET 4

000 339-28582

6



BRUSH SET 2 PAIR

000 339-28582BWI

7



BRUSH SET 2 PAIR W/BWI

000 339-28598I

8



BRUSH SET 8 WITH BWI



ELECTRIC MOTORS

electric motor brush kits

000 339-28654

1



BRUSH SET 4

000 339-2865K

2



BRUSH KIT WITH SPRINGS

000 339-28664

3



BRUSH SET 4

000 339-28694

4



BRUSH SET 4

000 339-28694BWI

5



BRUSH SET 4 WITH BWI

000 339-28728

6



BRUSH SET 8

000 339-28734

7



BRUSH SET 4

000 339-28784

8



BRUSH SET 4



ELECTRIC MOTORS

electric motor brush kits

000 339-28794

1



BRUSH SET 4

000 339-28832

2



BRUSH SET 2 PAIR

000 339-28854BWI

3



NEW
Catalog Item!

BRUSH SET 4 W/BWI

000 339-29074

4



NEW
Catalog Item!

BRUSH SET OF 4

000 339-29092

5



NEW
Catalog Item!

BRUSH SET 2

000 339-29114

6



NEW
Catalog Item!

BRUSH SET 4 PAIR

000 339-29124

7



NEW
Catalog Item!

BRUSH SET 4 PAIR

000 339-29154

8



NEW
Catalog Item!

BRUSH SET OF 4



ELECTRIC MOTORS electric motor brush kits

000 339-3003

1



BRUSH SET 4

000 339-5010

2



BRUSH SET 4 PAIR

000 339-5052

3



BRUSH SET 4

000 339-5062

4



BRUSH SET 2

000 339-5106

5



BRUSH SET 2

000 339-5212

6



BRUSH SET 4

000 339-5217

7



BRUSH SET 4 PAIR

000 339-5234

8



BRUSH SET 8



ELECTRIC MOTORS

electric motor brush kits

000 339-5251

1



BRUSH SET 2 PAIR

000 339-5311

2



BRUSH SET 4

000 339-5384

3



BRUSH SET 2 QUADS

000 339-5416

4



BRUSH SET 4 PAIR

000 339-5490

5



BRUSH SET 4 PAIR

000 339-5491

6



BRUSH SET 2 PAIR

000 339-5495

7



BRUSH SET 4 PAIR

000 339-5498

8



BRUSH SET 4



ELECTRIC MOTORS electric motor brush kits

000 339-5724

1



BRUSH SET 8

000 339-5761

2



BRUSH SET 4

000 339-5781

3



BRUSH SET 4

000 339-5881

4



BRUSH SET 4

000 339-5988

5



BRUSH SET 4

000 339-5990

6



BRUSH KIT WITH SPRINGS

000 339-5991

7



BRUSH KIT WITH SPRINGS

000 339-6003

8



BRUSH SET 6



ELECTRIC MOTORS

electric motor brush kits

000 339-6004

1



BRUSH SET 4

000 339-6005

2



BRUSH KIT WITH SPRINGS

000 339-6012

3



BRUSH SET 4

000 339-8000

4



BRUSH KIT WITH SPRINGS

000 339-8001

5



BRUSH KIT WITH SPRINGS

000 339-8004

6



BRUSH KIT WITH SPRINGS

000 339-8006

7



BRUSH KIT WITH SPRINGS

000 339-8008

8



BRUSH KIT WITH SPRINGS



ELECTRIC MOTORS

electric motor brush kits

000 339-8010

1



BRUSH KIT WITH SPRINGS

000 339-8011

2



BRUSH KIT WITH SPRINGS

000 339-8016

3



BRUSH KIT WITH SPRINGS

000 339-8017

4



BRUSH KIT WITH SPRINGS

000 339-8023

5



BRUSH KIT WITH SPRINGS

000 339-8024

6



BRUSH KIT WITH SPRINGS

000 339-8025

7



BRUSH KIT WITH SPRINGS

000 339-8026

8



BRUSH KIT WITH SPRINGS



ELECTRIC MOTORS

electric motor brush kits

000 339-8029

1



BRUSH KIT WITH SPRINGS

000 339-8031

2



BRUSH KIT WITH SPRINGS

000 339-8033

3



BRUSH KIT WITH SPRINGS

000 364-1018-BK

4



NEW
Catalog Item!

BRUSH SET OF 4 24V

000 364-1024-BK

5



NEW
Catalog Item!

BRUSH KIT WITH SPRINGS

000 364-1027-BK

6



NEW
Catalog Item!

BRUSH SET OF 4 12V

001 373448

7



BRUSH KIT W/BWI

002 100730

8



BRUSH SET 4



ELECTRIC MOTORS

electric motor brush kits

002 104888

1



BRUSH SET 8

002 107304

2



BRUSH SET 2

002 87713

3



BRUSH SET 8

002 90286

4



BRUSH KIT WITH HARDWARE

007 1810663

5



BRUSH KIT WITH SPRINGS

007 1811026

6



BRUSH KIT WITH SPRINGS

007 1811088

7



BRUSH KIT WITH SPRINGS

007 1811374

8



BRUSH KIT WITH SPRINGS



ELECTRIC MOTORS

electric motor brush kits

009 374898

1



BRUSH SET 4

009 389673

2



BRUSH SET 4 PAIR

009 393876

3



BRUSH SET 4 PAIR

009 394943

4



BRUSH SET 4 PAIR

015 570-109-03

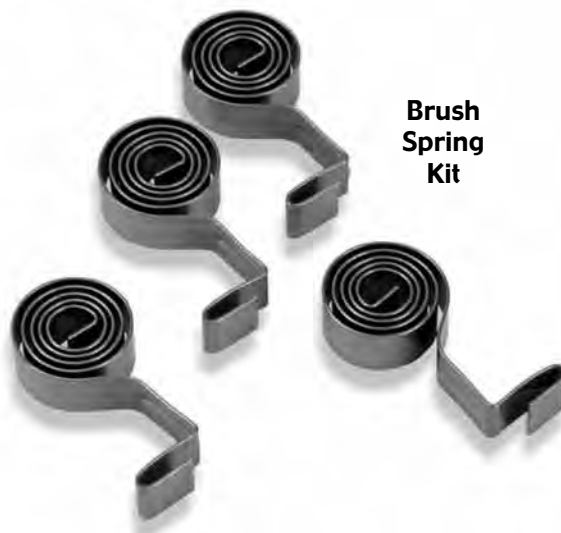
5



BRUSH SET 4



Brush Spring



Brush Spring Kit

ELECTRIC MOTORS OEM applications brush springs

OEM Application #	Description	OEM Application #	Description	OEM Application #	Description
HYSTER		HYSTER cont		CROWN	
001 1100113	Set of 4	001 3001797	Single	002 074606	Single
001 1144545	Set of 4	001 3001807	Single	002 074617	Set of 8
001 1196865	Single	001 3001856	Set of 4	002 076481	Set of 4
001 1197155	Single	001 3001914	Single	002 078468	Set of 8
001 1198105	Set of 4	001 3002078	Set of 8	002 078496	Set of 4
001 1198228	Set of 8	001 3002482	Single	002 084546	Single
001 1198707	Set of 8	001 3003312	Single	002 087398	Single
001 1198753	Set of 4	001 3012785	Single	002 087884	Single
001 1198953	Set of 4	001 3015656	Single	002 089184	Set of 8
001 1199363	Set of 4	001 3018031	Set of 8	002 090285	Set of 4
001 1308830	Single	001 3051851	Single	002 090856	Single
001 1309378	Single	001 3052225	Set of 4	002 093584	Set of 4
001 1459685	Single	001 3052420	Single	002 105560	Single
001 188389	Single	001 3052676	Single	002 109943	Set of 8
001 2013456	Single	001 3053576	Single	002 110202	Single
001 2034136	Single	001 3053654	Set of 8	002 110246	Set of 4
001 2034507	Single	001 3053658	Single	002 113329	Set of 4
001 231994	Set of 4	001 3056461	Single	002 114534	Single
001 238760	Set of 4	001 3145024	Single	002 114672	Set of 4
001 248293	Single	001 328760	Single	002 114772	Set of 4
001 286082	Single	001 328876	Single	002 114807	Set of 4
001 3000177	Single	001 55613	Set of 4	002 118466	Single
001 3000179	Single	001 A-129700	Set of 8	002 125918	Single
001 3000187	Single	001 A-134258	Set of 4	YALE	
001 3000192	Single	001 A-144545	Set of 4	003 023403300	Set of 8
001 3000193	Single	001 A49760	Single	003 023403700	Set of 8
001 3000224	Single	001 A-98629	Set of 4	003 023404500	Single
001 3001792	Set of 4			003 052041100	Set of 4

Lift Truck Parts Professionals



ELECTRIC MOTORS OEM applications brush springs

OEM Application # Description

YALE cont

003 054038000	Single
003 056210400	Set of 4
003 058786800	Set of 4
003 066158200	Set of 4
003 134178101	Set of 4
003 134178102	Single
003 134178103	Single
003 220000661	Set of 8
003 220000855	Single
003 220000923	Single
003 220002045	Single
003 220002626	Single
003 220002752	Set of 2
003 220006473	Single
003 220017582	Single
003 220017672	Single
003 220017885	Set of 2
003 220018307	Set of 8
003 220019566	Set of 8
003 220020197	Single
003 220021951	Set of 4
003 220022111	Set of 4
003 220023328	Set of 8
003 220023441	Set of 4
003 220023453	Single
003 220025767	Single
003 220027589	Set of 8
003 220027800	Set of 4
003 220028029	Single
003 220037579	Single
003 220045024	Single
003 220050286	Set of 8
003 220051206	Set of 4
003 220051365	Set of 4
003 220051423	Set of 4
003 220051424	Set of 4
003 220051868	Single
003 220052475	Single
003 503658800	Set of 4
003 504228298	Single
003 504230241	Single
003 505104800	Set of 4
003 505466800	Set of 4
003 506273800	Set of 4
003 506600800	Set of 8
003 507623800	Set of 8
003 509014801	Set of 4
003 509014804	Set of 4
003 518264804	Single
003 518806632	Single
003 519432624	Single

OEM Application # Description

YALE cont

003 519467001	Set of 4
003 519745812	Single
003 520040816	Single
003 520045089	Single
003 580007603	Single
003 721284100	Single
003 721305100	Single

KALMAR AC

006 74905999	Set of 4
006 74906486	Set of 4
006 74906528	Set of 8
006 74907392	Set of 4
006 74907766	Set of 8
006 74911072	Single
006 74911483	Single
006 74911697	Single
006 74994072	Single
006 74996491	Single
006 74999789	Single

CLARK

007 6517648	Set of 4
007 7003934	Single
007 7003943	Single
007 7003944	Single
007 7003947	Single
007 7003948	Single
007 7003953	Single
007 7003953	Single
007 7003954	Single
007 7003960	Single
007 7003961	Single
007 7003963	Single
007 7003964	Single
007 7003966	Set of 4
007 7003984	Set of 4
007 7004022	Single
007 7004023	Single
007 7004024	Single
007 7004025	Set of 4
007 859125	Single
007 862702	Single
007 867380	Set of 4
007 885128	Single
007 892812	Single
007 893682	Set of 4
007 893695	Set of 8
007 897024	Set of 8
007 905036	Single
007 906301	Single
007 908767	Set of 4
007 911544	Single

OEM Application # Description

CLARK cont

007 915596	Single
007 915801	Single
007 980767	Set of 4
007 991226	Single
007 993372	Set of 4
007 994396	Single

CATERPILLAR (TOWMOTOR)

009 0311022	Set of 4
009 0331074	Single
009 0339138	Single
009 0358317	Set of 8
009 0358891	Set of 8
009 0361772	Set of 8
009 0369437	Single
009 0383800	Set of 8
009 0386463	Set of 8
009 0904951	Set of 4
009 0907239	Set of 8
009 0973392	Single
009 0973393	Set of 4
009 1009189	Set of 4
009 1009190	Set of 4
009 1050061	Set of 8
009 1075050	Set of 4
009 1142630	Set of 4
009 216388	Set of 4
009 2P8868	Set of 8

BARRETT

012 22393-016	Single
012 22393-017	Single
012 27327-120	Set of 8
012 27327-199	Set of 4
012 27793-011	Set of 4
012 28829-058	Set of 4
012 A22393-16	Single
012 A22393-17	Single
012 A-27327-120	Set of 8
012 A27793-11	Set of 4

RAYMOND

015 560-010/12	Set of 4
015 570-001/01	Set of 4
015 570-010/10	Set of 4
015 570-015/07	Single
015 570-019/02	Set of 4
015 570-021/10	Single
015 570-026/02	Set of 4
015 570-115/115	Single
015 570-214/11	Single
015 570-242/112	Set of 8
015 570-403/04	Set of 8
015 570-414/08	Set of 4



ELECTRIC MOTORS OEM applications brush springs

OEM Application	Pg. # / Pic. #
RAYMOND cont	
015 570-415/10	Set of 4
015 570-416/11	Set of 8
015 570-417/08	Set of 4
015 570-446/516	Set of 4
015 570-804/03	Set of 2
015 570-812/07	Set of 2
015 570-813/03	Set of 2
015 570-823/06	Set of 2
015 570-835/11	Set of 2
015 DS227872	Set of 4
BAKER/LINDE	
017 101205	Set of 4
017 108358	Single
017 108782	Set of 4
017 112546	Single
017 116093	Set of 8
017 126554	Single
017 126571	Single
017 129940	Single
017 129963	Single
017 12AL16	Set of 4
017 12AL16A	Set of 4
017 12MP32	Set of 4
017 15MP21	Set of 8
017 18AL4	Set of 8
017 33Y11313	Single
017 36B547926G1	Single
017 94MBY1	Set of 4
017 94MDB1	Single
017 993459	Set of 4
017 993946	Set of 8
017 993956	Set of 4
017 EP311	Set of 4
017 EP311A	Set of 4
017 EP477	Set of 4
PETTIBONE MERCURY	
018 36A283079P2	Single
018 36B547925G1	Single
018 36B547926G1	Single
018 36B547929G1	Single
018 708A554-2	Single
018 B240501	Single
018 MGP18S	Set of 8
018 MGP-18S	Set of 8
018 MGP18SS	Set of 4
018 MGP-18SS	Set of 4
018 MGP18SSS	Set of 4
018 SMP12-194	Single
018 SMP12-247	Single
018 SMP12-47	Single
018 SMP12-470	Set of 4

OEM Application	Pg. # / Pic. #
PETTIBONE MERCURY cont	
018 SMP12-471	Set of 8
018 SMP12-472	Set of 4
018 SMP2-47	Single
WHITE	
019 20-7301744	Set of 8
019 20-7301811	Single
019 20-7302001	Set of 8
SCHRECK	
020 33-11450	Set of 4
020 33-11452	Set of 4
020 33-11453	Set of 8
020 33-11454	Set of 8
020 33-11456	Set of 4
SCHAEFF NAMCO	
060 120296	Set of 8
060 120525	Set of 8
060 121142	Set of 8
060 125583	Set of 8
PRIME MOVER	
066 200190	Set of 8
066 200240	Set of 8
066 200241	Set of 4
066 200305	Set of 4
066 EMBD-19-S	Set of 8
066 EMGP-18S	Set of 8
066 EMGP-18-S	Set of 8
066 EMGP-18SS	Set of 4
066 EMGP-18-SS	Set of 4
066 EMZ-19S	Set of 4
PRESTOLITE	
073 50-263	Set of 4
073 50-264	Set of 4
073 50-368	Set of 4
073 50-375	Set of 8
073 50-417	Set of 4
073 MCP-19S	Set of 4
073 MCP-19-S	Set of 4
073 MGP-18S	Set of 8
073 MGP-18-S	Set of 8
073 MGP-18SS	Set of 4
073 MGP-18-SS	Set of 4
073 MHC-19SS	Set of 4
073 MHC-19-SS	Set of 4
073 MZ-19S	Set of 4
073 MZ-19-S	Set of 4
OHIO MOTORS	
087 B-240501	Single
DREXEL	
107 20153	Single
107 21015	Single
107 28465	Single

OEM Application	Pg. # / Pic. #
DREXEL cont	
107 36A285466-001	Single
107 36B547925-G01	Single
107 36B547926G01	Single
107 36B547926-G01	Single
107 5001-14	Single
107 50608	Single
107 52490	Single
TCM	
166 200241	Set of 4
166 200305	Set of 4
166 EMGP-18SS	Set of 4
166 EMZ-19S	Set of 4
BIG JOE	
252 003711	Set of 4
252 900136	Set of 4
252 900199	Set of 8
GENERAL ELECTRIC	
336 36A283079P2	Single
336 36A285466001	Single
336 36B547925G1	Single
336 36B547926G1	Single
336 36B547929G1	Single
336 708A554-2	Single
336 708A625-2	Single
336 708A625P2	Single



ELECTRIC MOTORS

brush holders

000 324-1175

1



BRUSH HOLDER

000 324-1185

2



BRUSH HOLDER

000 324-1188

3



BRUSH HOLDER

000 324-1190

4



BRUSH HOLDER

000 324-1191

5



BRUSH HOLDER

000 324-1192

6



BRUSH HOLDER

000 324-1195

7



BRUSH HOLDER

000 324-1196

8



BRUSH HOLDER

000 324-1198

9



BRUSH HOLDER



ELECTRIC MOTORS brush holders

000 324-1260

1



BRUSH HOLDER

000 324-1262

2



BRUSH HOLDER

000 324-1302

3



BRUSH HOLDER
Used on Starter Motor

000 324-1400

4



BRUSH HOLDER KIT

000 324-1401

5



BRUSH HOLDER KIT

000 324-1449

6



BRUSH HOLDER

000 324-1450

7



BRUSH HOLDER KIT

000 324-1451

8



BRUSH HOLDER

000 324-1452

9



BRUSH HOLDER

Lift Truck Parts Professionals



ELECTRIC MOTORS

brush holders

000 324-1453

1



BRUSH HOLDER

000 324-1455

2



BRUSH HOLDER

000 324-1456

3



BRUSH HOLDER

000 324-9000

4



BRUSH HOLDER

000 339-9911

5



BRUSH HOLDER

000 349-9000

6



BRUSH HOLDER