prestolite®

SERVICE PARTS LIST

# MGL-4000 SERIES

MOTORS

ISSUED:1-23-78 (Rev.)

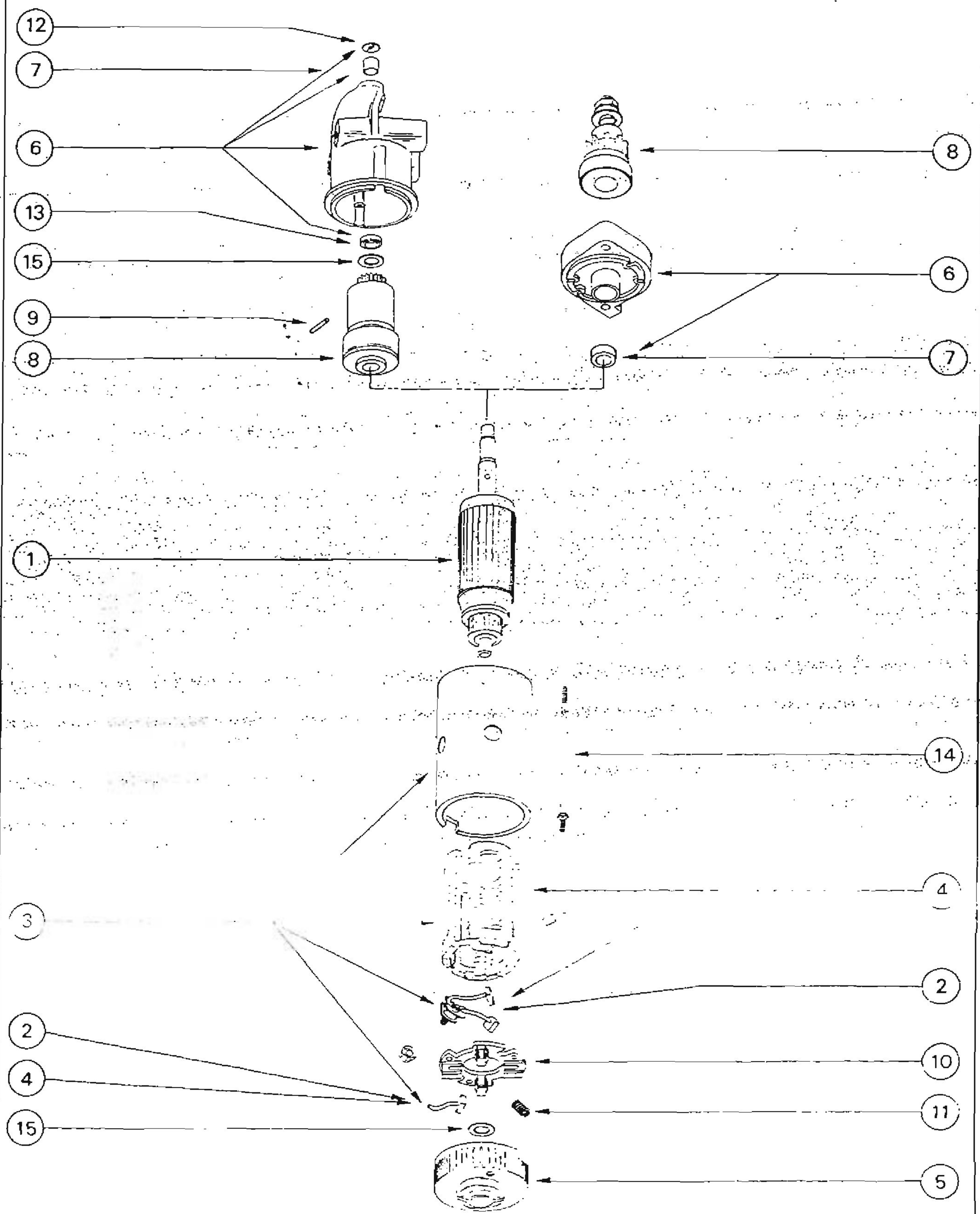
| ORIG.EQUIP.MOTOR ENG. NUMBER | | SERVICE MOTOR ENG. NUMBER | SALES NUMBER | APPLICATION |
|---|---|---|---|---|
| MGL-4001 | USE | MGL-4001B | - - - | Mercury-Marine |
| MGL-4001A | USE | MGL-4001B | - - - | Mercury-Marine#50-37274 |
| MGL-4001B | | MGL-4001B | - - - | Mercury-Marine#50-57867 |
| MGL-4002 | USE | MGL-4013 | 46-2154 | Chrysler Outboard |
| MGL-4002A | USE | MGL-4002A | 46-2002 | Lombardini (Industrial) |
| | USE | MGL-4013 | 46-2154 | Chrysler Outboard(Marine) |
| MGL-4003 | | MGL-4003 | 46-807 | McCulloch |
| MGL-4003A | | MGL-4003A | 46-808 | McCulloch |
| MGL-4005 | USE | MKW-4007 | 46-2415 | Meyer Products |
| MGL-4006 | | MGL-4006 | - - - | Mercury-Marine#50-45822 |
| MGL-4007 | | MGL-4007 | 46-880 | Fisher Engineering |
| MGL-4008 | USE | MGL-4108 | 46-2034 | Evinrude,Johnson |
| MGL-4009 | | MGL-4009 | - - - | Mercury-Marine#50-53262 |
| MGL-4010 | | MGL-4010 | - - - | Mercury-Marine#50-53261 |
| MGL-4012 | USE | MGL-4012B | - - - | Mercury-Marine |
| MGL-4012A | USE | MGL-4012B | - - - | Mercury-Marine |
| MGL-4012B | | MGL-4012B | - - - | Mercury-Marine#50-58788 |
| MGL-4013 | | MGL-4013 | 46-2154 | Chrysler Outboard |
| MGL-4014 | | MGL-4014 | 46-2346 | Chrysler Outboard |
| MGL-4015 | | MGL-4015 | 46-2357 | Military |
| MGL-4105 | USE | MKW-4007 | 46-2415 | Meyer Products |
| MGL-4108 | | MGL-4108 | 46-2034 | O.M.C.#384914 |
| MGL-4109 | | MGL-4109 | 46-2399 | O.M.C.#389380 |

VOLTS-12

NOTE: SEE PARTS LIST FOR MOTOR BEING SERVICED WHEN COMPONENT PARTS ARE REQUIRED.



# MGL-4000 Series Motor Parts List




Exploded View of Typical MGL Motor

| Assembly | Armature (1) | Brush & Terminal Set (2) | Frame & Field Assembly (3) | Field Coil Package (4) | Comm. End Head Assembly (5) | D.E. Head Or Pinion Hsg. (6) | D.E. Bearing (7) |
|---|---|---|---|---|---|---|---|
| MGL-4001 [a] | 16-505 (MGL-2006A) | 17-171 (MGL-2032S) | 58-290 (MGL-2001) | 20-465 (MGL-1005S) | 19-162 (MGL-1002) | 22-208 (MGL-1003A) | 24-78 (MGL-17) |
| MGL-4001A [a] | " | " | 58-241 (MGL-2101A) | " | " | " | " |
| MGL-4001B [a] | " | " | " | " | " | " | " |
| MGL-4002 (46-776) | 16-452 (MGD-2906) | " | 58-311 (MGL-2101AS) | " | 19-138 (MGD-1002) | 22-72 (MGD-1103) | - - - - |
| MGL-4002A (46-2002) | " | " | " | " | " | " | - - - - |
| MGL-4003 (46-807) | 16-341 (MGL-2106) | " | 58-227 (MGL-2201S) | " | " | 21-335 (MGL-1303S) | 24-45 (MDH-41) |
| MGL-4003A (46-808) | " | " | " | " | " | 21-336 (MGL-1303AS) | " |
| MGL-4005 (46-854) | 16-368 (MGD-2506) | " | 58-241 (MGL-2101A) | " | 19-162 (MGL-1002) | 22-99 (MGD-1203) | - - - - |
| MGL-4006 [a] | 16-505 (MGL-2006A) | " | 58-288 (MGL-2301) | " | " | 22-208 (MGL-1003A) | 24-78 (MGL-17) |
| MGL-4007 (46-880) | 16-379 (MGL-2306) | " | 58-241 (MGL-2101A) | " | " | 22-99 (MGD-1203) | - - - - |
| MGL-4008 (46-937) | 16-421 (MGD-2606) | " | 58-274 (MGL-2501) | " | 19-138[c] (MGD-1002) | 22-204 (MGD-1403A) | 24-73 (MDH-30) |
| MGL-4009 [a] | 16-500 (MGL-2406) | " | 58-241 (MGL-2101A) | " | 19-162 (MGL-1002) | 22-208 (MGL-1003A) | 24-78 (MGL-17) |
| MGL-4010 [a] | 16-501 (MGL-2506) | " | " | " | " | " | " |
| MGL-4012 [a] | 16-502 (MGL-2606) | " | " | " | " | " | " |
| MGL-4012A [a] | " | " | " | " | " | " | " |
| MGL-4012B [a] | " | " | " | " | " | " | " |
| MGL-4013 (46-2154) | 16-521 (MGD-2806A) | " | 58-312 (MGL-2101AS-1) | " | 19-138 (MGD-1002) | 22-72 (MGD-1103) | - - - - |
| MGL-4014 (46-2345) | | | | | 19-162 (MGL-1002) | 22-224 (MGL-1113) | 24-73 (MDH-30) |
| (46-2357) | (MGD-2806) | | (MGL-2201AS) | | | (MGL-1123) | |
| MGL-4105 (46-2001) | 16-490[b] (MGD-2806S) | " | 58-241 (MGL-2101A) | " | " | 22-180 (MGD-1503) | - - - - |
| MGL-4108 (46-2034) | 16-421 (MGD-2606) | " | 58-314 (MGL-2501AS) | " | 19-138 (MGD-1002) | 22-189 (MGL-1503) | 24-73 (MDH-30) |
| MGL-4109 (46-2399) | 16-524 (MGD-2606A) | " | 58-334[*] (MGL-2201BSS) | " | 19-162 (MGL-1002) | " | " |

[*] 36-1043 (MGD-54AS) Damper Pad Package (10 Pcs.) is available.
[a] Complete Assembly available thru Mercury Marine only.
[b] 90-2201 Thrust Washer Pkg. included.
[c] 36-831A (MGL-32A) C.E. Head Insulation also available.

File in the

MOTOR SECTION

# MGL-4000 SERIES

| Assembly | Bendix Drive (8) | Bendix Pin Package (9) | Brush Plt. & Holder Assy. (10) | Brush Spring Set (11) | Expansion Plug (12) | Shaft Seal (13) | Thru Bolt Package (14) | Thrust Washer Package (15) |
|---|---|---|---|---|---|---|---|---|
| MGL-4001 [a] | - - - - | - - - - | 36-863 (MGL-10338) | 50-335 (MGO-1855) | - - - - | - - - - | 43-383 (MGL-420S) | 90-796 |
| MGL-4001A [a] | - - - - | - - - - | " | " | - - - - | - - - - | " | " |
| MGL-4001B [a] | - - - - | - - - - | " | " | - - - - | - - - - | " | " |
| MGL-4002 (46-776) | 59-173 (MGL-1161) | - - - - | " | " | - - - - | - - - - | 43-332 (MGO-20S) | 90-2323 |
| MGL-4002A (46-2002) | " | - - - - | " | " | - - - - | - - - - | " | " |
| MGL-4003 (46-807) | 59-204 (E88-142A) | 90-2140 | " | " | 36-737 (H5-272) | 36-967 (XA-1211) | 36-738 (MGL-120S) | 90-730 |
| MGL-4003A (46-808) | " | " | " | " | " | " | " | " |
| MGL-4005 (46-854) | - - - - | - - - - | " | " | - - - - | - - - - | 43-331 (MGO-120S) | " |
| MGL-4006 [a] | - - - - | - - - - | " | " | - - - - | - - - - | 43-383 (MGL-420S) | 90-796 |
| MGL-4007 (46-880) | - - - - | - - - - | " | " | - - - - | - - - - | 36-530 (MGL-20S) | 90-730 |
| MGL-4008 (46-937) | 59-207 (MGO-14618) | - - - - | " | " | - - - - | - - - - | 43-378 (MJM-20CS) | 90-2077 |
| MGL-4009 [a] | [d] (MJM-1061) | - - - - | " | " | - - - - | - - - - | 43-383 (MGL-420S) | " |
| MGL-4010 [a] | 59-215 (MJM-1161) | - - - - | " | " | - - - - | - - - - | " | " |
| MGL-4012 [a] | 59-216 (E88-143) | - - - - | " | " | - - - - | - - - - | " | 90-796 |
| MGL-4012A [a] | 59-221 (E88-151) | - - - - | " | " | - - - - | - - - - | " | " |
| MGL-4012B [a] | " | - - - - | " | " | - - - - | - - - - | " | " |
| MGL-4013 (46-2154) | 59-222 (E88-149) | - - - - | " | " | - - - - | - - - - | 43-332 (MGO-20S) | 90-2323 |
| MGL-4014 (46-2346) | " | - - - - | " | " | - - - - | - - - - | 43-394 (MJM-[illegible]) | " |
| MGL-4015 (46-2357) | 59-229 (E88-164A) | - - - - | " | " | - - - - | - - - - | 43-378 (MJM-20CS) | 90-2077 |
| MGL-4105 (46-2001) | - - - - | - - - - | " | " | - - - - | - - - - | 43-331 (MGO-120S) | 90-2201 |
| MGL-4108 (46-2034) | 59-207 (MGO-14618) | - - - - | " | " | - - - - | - - - - | 43-378 (MJM-20CS) | 90-2077 |
| MGL-4109 (46-2399) | 59-214 (E88-146) | - - - - | " | " | - - - - | - - - - | " | " |

[a] Complete Assembly available thru Mercury Marine only.
[d] Eclipse Number 480184.

Application Harley-Davidson(#31458-66) "Private Brand"

| Service Part No. | No. Used | Part Description | Prestolite Sales No. |
|---|---|---|---|
| [PB] | 1 | ARMATURE | [PB] |
| MGL-1033B | 1 | BRUSH PLATE & HOLDER ASSY. | 36-863 |
| MGL-2101A | 1 | FRAME & FIELD ASSY.,COMPLETE | |
| MGL-1005S | 1 | FIELD COIL PKG. | 20-465 |
| MGL-2032S | 1 | BRUSH & TERMINAL SET | 17-171 |
| | 4 | Screw,Pole Shoe | |
| [PB] | 1 | HEAD ASSY.,COMM.END | [PB] |
| [PB] | 1 | HEAD ASSY.,DRIVE END | [PB] |
| X-3769 | 1 | BEARING,BALL,SEALED | 25-75 |
| MGD-18SS | 1 | SPRING SET,BRUSH | 50-335 |
| MGL-220S | 1 | THRU BOLT PKG. | 43-379 |

[PB] Private Brand Part - not available thru Prestolite.