prestolite®

SERVICE PARTS LIST

MGD-4000 SERIES

STARTING MOTORS

ISSUED: 10-15-76(Rev.)

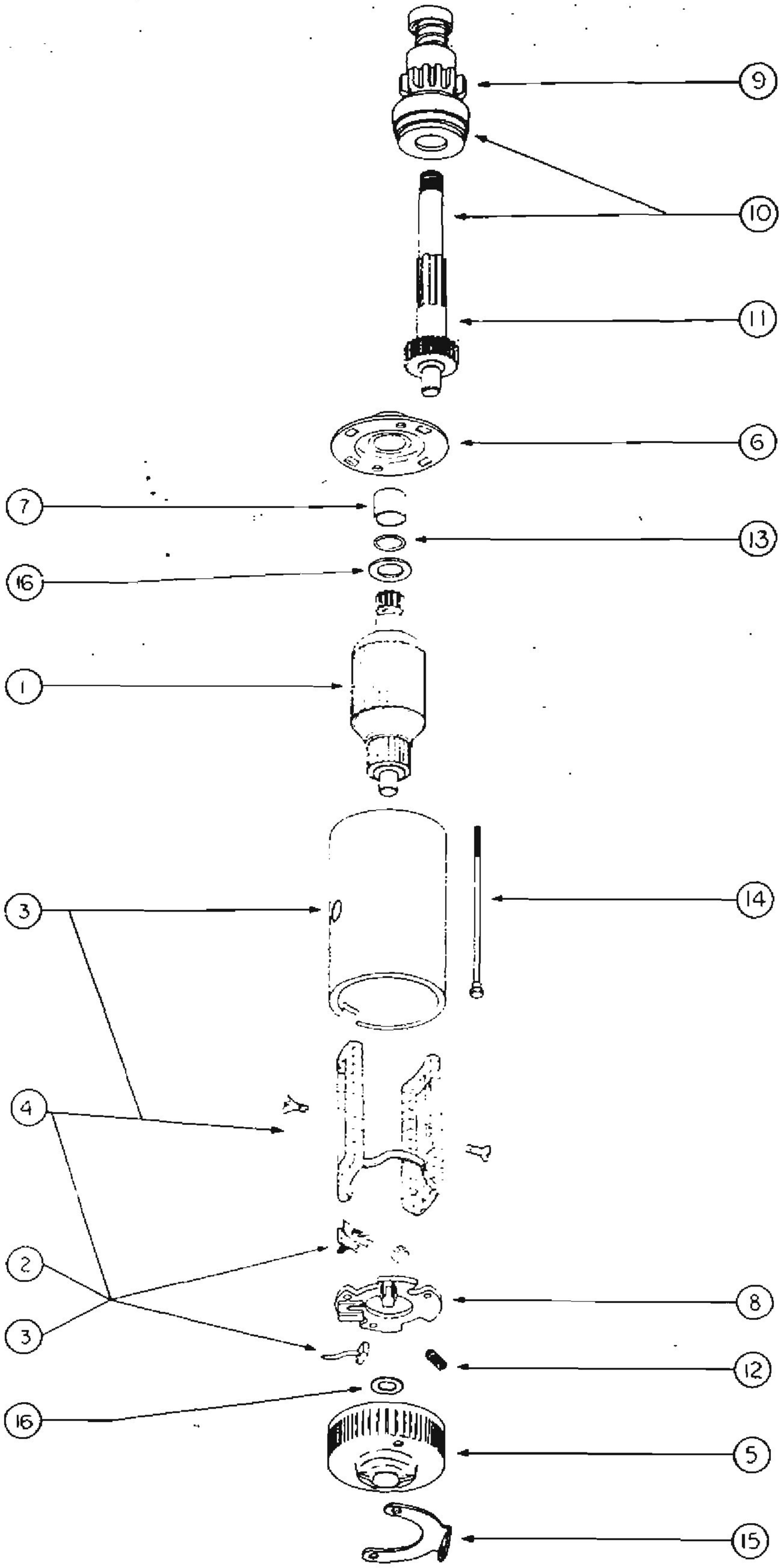
ORIG.EQUIP.MOTOR ENG. NUMBER		SERVICE MOTOR ENG. NUMBER	SALES NUMBER	APPLICATION
MGD-4001		MGD-4001	46-371	Evinrude,Johnson
MGD-4002	USE	MGD-4102C	46-452	Evinrude,Johnson
MGD-4002A	USE	MGD-4102A	46-781	Wisconsin(Engine)
MGD-4002B		MGD-4002B	46-587	Chrysler Outboard,West Bend
MGD-4002C	USE	MGD-4102C	46-452	Evinrude,Johnson
MGD-4003		MGD-4003	46-434	Homelite
MGD-4006		MGD-4006	46-885	Evinrude,Johnson
MGD-4007	USE	MGD-4113	46-2299	O.M.C.
MGD-4007A	USE	MGD-4113	46-2299	O.M.C.
MGD-4102	USE	MGD-4102C	46-452	Evinrude,Johnson
MGD-4102A		MGD-4102A	46-781	Wisconsin(Engine)
MGD-4102C		MGD-4102C	46-452	Evinrude,Johnson
*MGD-4106	USE	MGD-4110	46-2196	Evinrude,Johnson
MGD-4106A	USE	MGD-4110	46-2196	O.M.C.
MGD-4107		MGD-4107	46-2031	Federal Sign & Signal
MGD-4108	USE	MGD-4108A	- - - -	Mercury Marine
MGD-4108A		MGD-4108A	- - - -	Mercury Marine(#50-60315)
MGD-4109		MGD-4109	46-2085	Monarch Road Machinery
MGD-4110		MGD-4110	46-2196	O.M.C.
MGD-4111		MGD-4111	46-2226	Nortin Villiers Ltd.
MGD-4112		MGD-4112	46-2279	Onan
MGD-4113		MGD-4113	46-2299	O.M.C.
MGD-4114		MGD-4114	46-2368	Thermo-King Corp.

* Special Note: The first 75 pieces of this unit supplied to Customer with understanding of no service or warranty. These Motors can be identified by a "I" stamped over a "O" in the Part Number(MGD-4106). The service parts listed cannot be used for these 75 pieces as the Motor was redesigned for final production.

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



MGD-4000 Series Starting Motor Parts List



Exploded View of Typical MGD Starting Motor

Assembly	Armature (1)	Brush Set (2)	Frame & Field Assembly (3)	Field Coil Package (4)	Comm. End Head Assembly (5)	Drive End Head Assembly (6)	O.E. Bearing (7)
MGD-4001 (46-371)	16-254 (MGD-2006)	17-103 (MGD-20325)	58-117 (MGD-2001)	20-488 (MGD-1005S)	19-138 (MGD-1002)	22-71 (MGD-1003)	- - - -
MGD-4002 (46-372)	16-255 (MGD-2106)	"	58-339 (MGD-2101C)	20-456 (MGD-1105S)	"	22-72 (MGD-1103)	- - - -
MGD-4002A (46-462)	"	"	"	"	"	"	- - - -
MGD-4002B (46-587)	"	"	58-309 (MGD-2101S-1)	"	"	"	- - - -
MGD-4002C - - - -	"	"	58-339 (MGD-2101C)	"	"	"	- - - -
MGD-4003 (46-434)	16-282 (MGD-2206)	"	58-117 (MGD-2001)	20-488 (MGD-1005S)	"	22-99 (MGD-1203)	- - - -
MGD-4006 (46-835)	16-353 (MGD-2406)	"	58-246 (MGD-2201)	20-456 (MGD-1105S)	"	22-145[c] (MGD-1303)	24-73 (MDH-30)
MGD-4007 (46-976)	16-421 (MGD-2606)	"	58-324[b] (MGD-2701BS)	20-452 (MGD-1405AS)	"	22-204[c] (MGD-1403A)	"
MGD-4007A (46-2122)	"	"	"	"	19-162 (MGL-1002)	22-189[c] (MGL-1503)	"
MGD-4102 (46-372)	16-255 (MGD-2106)	"	58-339 (MGD-2101C)	20-456 (MGD-1105S)	19-138 (MGD-1002)	22-72 (MGD-1103)	- - - -
MGD-4102A (46-781)	"	"	58-310 (MGD-2101S-2)	"	"	"	- - - -
MGD-4102C (46-452)	"	"	58-339 (MGD-2101C)	"	"	"	- - - -
MGD-4106 (46-936)	16-421 (MGD-2606)	"	58-322[b] (MGD-2601BS)	"	"	22-204[c] (MGD-1403A)	24-73 (MDH-30)
MGD-4106A (46-2118)	"	"	"	"	19-162 (MGL-1002)	22-189[c] (MGL-1503)	"
MGD-4107 (46-2031)	16-471 (MGD-2006A	17-152 (MGD-20328S)	58-277 (MGD-2501)	20-490 (MGD-1205S)	19-247 (MGL-1002B)	22-185[c] (MGL-1203A)	25-75 (X-3769)
MGD-4108 [a]	16-499 (MGL-2706)	17-103 (MGD-2032S)	58-286 (MGD-2801)	20-489 (MGD-1005AS)	19-265 (MJL-1202)	22-207[c] (MJL-1103)	24-78 (MGL-17)
MGD-4108A [a]	"	"	"	"	"	"	"
MGD-4109 (46-2085)	16-835 (MGD-2805C)	"	58-283 (MGD-2101A)	20-456 (MGD-1105S)	19-162 (MGL-1002)	22-180 (MGD-1503)	- - - -
MGD-4110 (46-2196)	16-421 (MGD-2606)	"	58-322[b] (MGD-2601BS)	"	"	22-189[c] (MGL-1503)	24-73 (MDH-30)
MGD-4111 (46-2226)	16-571 (MGD-2044)	"	58-302 (MGD-2101E)	20-488 (MGD-1005S)	"	22-247[c] (MGD-2030)	24-79 (MDO-17)
MGD-4112 (46-2279)	16-595 (MGD-2116)	"	58-320 (MGD-2101FS)	20-456 (MGD-1105S)	19-138 (MGD-1002)	22-261[c] (MGD-1113)	"
MGD-4113 (46-2299)	16-421 (MGD-2606)	"	58-324[b] (MGD-2701BS)	20-452 (MGD-1405AS)	19-162 (MGL-1002)	22-189[c] (MGL-1503)	24-73 (MDH-30)
MGD-4114 (46-2368)	16-255 (MGD-2106)	"	58-339 (MGD-2101C)	20-456 (MGD-1105S)	19-138 (MGD-1002)	22-72 (MGD-1103)	- - - -

[a] Complete Assembly available thru Mercury Marine only.
[b] Two(2) MGD-54 Damper Pads are Part of f & f. They are also available separately in 36-981(MGD-54S) Package(10Pcs.).
[c] Includes Bearing.

MGD-4000 SERIES

Assembly	Brush Plt. & Holder Assembly (8)	Bendix Drive (9)	Jack Shaft Assembly (10)	Gear & Shaft Assembly (11)	Brush Spring Set (12)	O Ring Seal (13)	Thru Bolt Package (14)
MGD-4001 (46-371)	36-862 (MGD-1033B)	[d]	[e]	36-806 (MDO-1035C)	50-272 (MGD-18S)	36-957 (XA-1221)	43-332 (MGD-20S)
MGD-4002 (46-372)	"	59-237 (DRF-3002S)	- - - -	- - - -	"	"	43-331 (MGD-120S)
MGD-4002A (46-462)	"	"	- - - -	- - - -	"	"	"
MGD-4002B (46-587)	"	"	- - - -	- - - -	"	"	43-380 (MGD-220S)
MGD-4002C - - - -	"	"	- - - -	- - - -	"	"	43-331 (MGD-120S)
MGD-4003 (46-434)	"	59-160 (MQW-1561)	- - - -	- - - -	"	- - - -	35-530 (GJG-520BS)
MGD-4006 (46-885)	"	59-187 (MGD-1361)	- - - -	- - - -	"	36-823 (XA-744BBS)	35-423 (GJG-20AS)
MGD-4007 (46-976)	"	59-238 (DRF-3003S)	- - - -	- - - -	"	- - - -	43-378 (MJM-20CS)
MGD-4007A (46-2122)	"	"	- - - -	- - - -	"	- - - -	"
MGD-4102 (46-372)	"	59-237 (DRF-3002S)	- - - -	- - - -	"	36-957 (XA-1221)	43-331 (MGD-120S)
MGD-4102A (46-781)	"	"	- - - -	- - - -	"	"	"
MGD-4102C (46-452)	"	59-236 (DRF-3004S)	- - - -	- - - -	"	"	43-395 (MGD-320S)
MGD-4106 (46-936)	"	59-233 (DRF-3001S)	- - - -	- - - -	"	- - - -	43-378 (MJM-20CS)
MGD-4106A (46-2118)	"	"	- - - -	- - - -	"	- - - -	"
MGD-4107 (46-2031)	"	- - - -	- - - -	- - - -	"	- - - -	43-379 (MGL-220S)
MGD-4108 ([a]	"	59-214 (EB8-146)	- - - -	- - - -	"	- - - -	43-378 (MJM-20CS)
MGD-4108A [a]	"	59-216 (EB8-143)	- - - -	- - - -	"	- - - -	"
MGD-4109 (46-2055)	"	- - - -	- - - -	- - - -	"	- - - -	35-423 (GJG-20AS)
MGD-4110 (46-2196)	"	59-233 (DRF-3001S)	- - - -	- - - -	"	- - - -	43-378 (MJM-20CS)
MGD-4111 (46-2226)	"	- - - -	- - - -	- - - -	"	36-956[f] (XA-1251)	"
MGD-4112 (46-2279)	"	59-233 (DRF-3001S)	- - - -	- - - -	"	36-957 (XA-1221)	43-339 (ETK-20S)
MGD-4113 (46-2299)	"	59-238 (DRF-3003S)	- - - -	- - - -	"	- - - -	43-378 (MJM-20CS)
MGD-4114 (46-2368)	"	59-231 (EB8-153)	- - - -	- - - -	"	36-957 (XA-1221)	43-331 (MGD-120S)

[d] 59-192(MDO-1361)Bendix Drive used when Outboard is Prestolite Generator equipped and
59-193(MDO-1461)Bendix Drive used when Outboard is Delco Alternator equipped.
[e] 36-807(MDO-2035E)Jack Shaft used when Outboard is Prestolite Generator equipped and
36-861(MDO-2035AA)Jack Shaft used when Outboard is Delco Alternator equipped.
[f] Lip Seal.

Assembly	Mounting Bracket (15)	Thrust Washer Package (16)
MGD-4001 (46-371)	36-274 (MDW-65)	90-2076
MGD-4002 (46-372)	36-273 (MDW-35)	90-259
MGD-4002A (46-462)	- - - -	"
MGD-4002B (46-587)	- - - -	90-2323
MGD-4002C - - - -	36-929 (MGD-35)	90-259
MGD-4003 (46-434)	- - - -	90-796
MGD-4006 (46-885)	- - - -	90-2077
MGD-4007 (46-976)	- - - -	"
MGD-4007A (46-2122)	- - - -	"
MGD-4102 (46-372)	36-273 (MDW-35)	90-259
MGD-4102A (46-781)	- - - -	"
MGD-4102C (46-452)	36-929 (MGD-35)	90-2076
MGD-4106 (46-936)	- - - -	90-2077
MGD-4106A (46-2118)	- - - -	"
MGD-4107 (46-2031)	- - - -	- - - -
MGD-4108 [a]	- - - -	90-259
MGD-4108A [a]	- - - -	"
MGD-4109 (46-2085)	- - - -	90-2002
MGD-4110 (46-2196)	- - - -	90-2077
MGD-4111 (46-2226)	- - - -	"
MGD-4112 (46-2279)	- - - -	90-2323
MGD-4113 (46-2299)	- - - -	90-2077
MGD-4114 (46-2368)	- - - -	90-259

[a] Complete Assembly available thru Mercury Marine only.

TEMPORARY PARTS LIST

prestolite®

SERVICE PARTS LIST

ASSY. NO. MGD-4115

SALES NO. 46-2438

STARTING MOTOR

ISSUED 5-30-78

Application Outboard Marine Corp.

Service Part No.	No. Used	Part Description	Prestolite Sales No.
MGD-2606A	1	ARMATURE	16-524
MGD-1033B	1	BRUSH PLATE & HOLDER ASSEMBLY	36-862
DRE-2201S	1	DRIVE ASSEMBLY PACKAGE	59-239
	1	· Spring	
	1	Cup,Spring Retaining	
	1	Nut,Self Locking	
MGD-2601BS-1	1	FRAME & FIELD ASSEMBLY	58-337
*	2	Damper Pad	
MGD-1105S	1	FIELD COIL PKG.(POLE SCREWS INCL.)	20-456
MGD-2032S	1	BRUSH SET,SERVICE	17-103
MGL-1002	1	HEAD ASSEMBLY,COMM.END	19-162
MGL-1503	1	HEAD ASSEMBLY,DRIVE END	22-189
MDH-30	1	BEARING,ABS.BRONZE	24-73
MGD-18S	1	SPRING SET,BRUSH	50-272
MJM-20CS	1	THRU BOLT PACKAGE	43-378
90-2077	1	THRUST WASHER PKG.	90-2077

* Available separately in Package of 10Pcs. MGD-54S (36-981).

Printed in U.S.A.

File in the
OE-92 PARTS BINDER

MOTOR SECTION