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Manifold Catalog

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Section 1

Johnson / Evinrude Gearcase

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Johnson / Evinrude

2 & 3-CYL. LOOPCHARGED SMALL GEARCASE IDENTIFICATION

Small Gearcase "Old" Style (1975-1988)

Physical Characteristics:

15-1/2" tall.

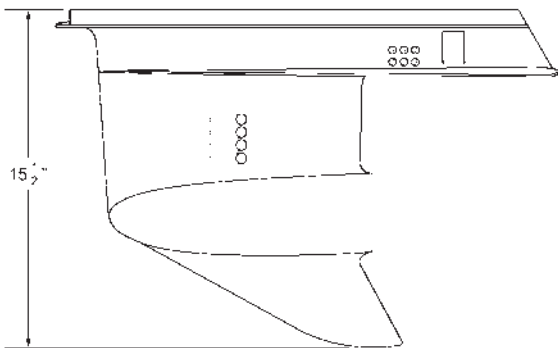
Straight at the trailing end of the gear housing and the fin.

Pointed at the trailing end of the cavitation plate.

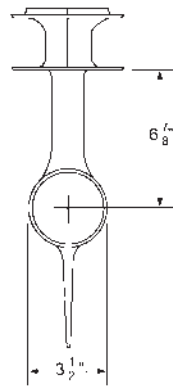
Six holes above the cavitation plate.

Internal water intake screens (four holes).

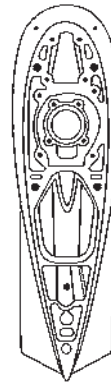
No speedo pitot.



Side View



Rear View



Top View

Small Gearcase "New" Style (1989-2005)

Physical Characteristics:

15-3/4" tall.

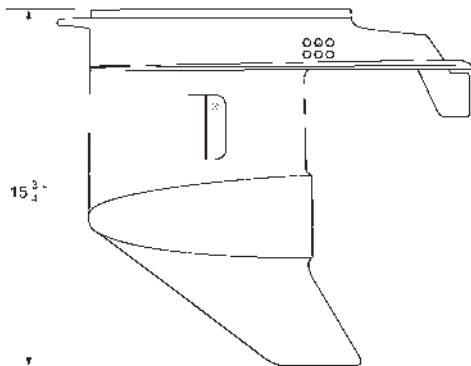
Straight at the trailing end of the gear housing and the fin.

Pointed at the trailing end of the cavitation plate.

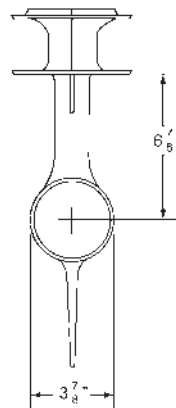
Six holes above the cavitation plate.

External water intake screens.

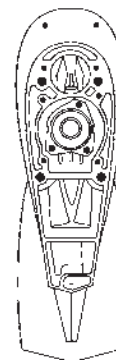
Includes speedo pitot.



Side View



Rear View



Top View

Johnson / Evinrude

2 & 3-CYL. LOOPCHARGED LARGE GEARCASE IDENTIFICATION

Large Gearcase (1975-2006)

Physical Characteristics:

17-7/16" tall.

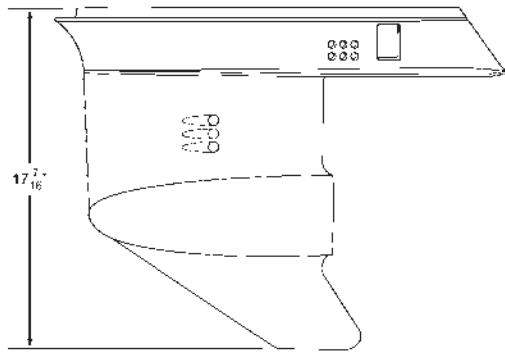
Straight at the trailing end of the gear housing and the fin.

Pointed at the trailing end of the cavitation plate.

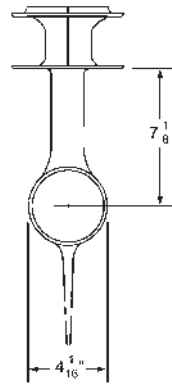
Six holes above the cavitation plate.

Internal water intake screens (three holes).

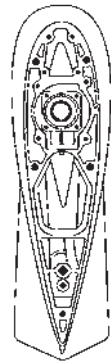
No speedo pitot.



Side View



Rear View



Top View

Johnson / Evinrude

V4 60° & V4 90° SMALL GEARCASE IDENTIFICATION

Small Gearcase V4 90° (1978-1998)

Physical Characteristics:

18-3/16" tall.

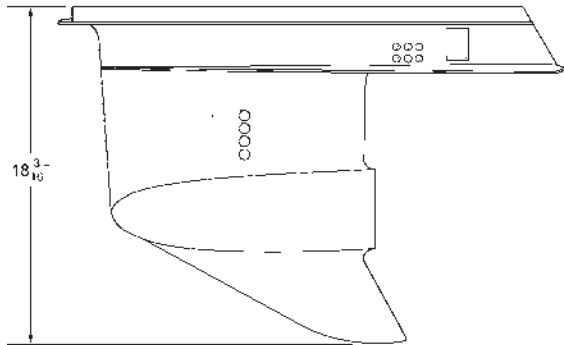
Straight at the trailing end of the gear housing and the fin.

Pointed at the trailing end of the cavitation plate.

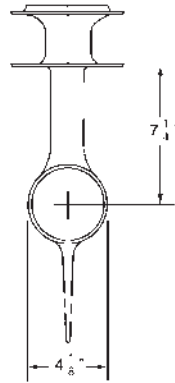
Six holes above the cavitation plate.

Internal water intake screens (four holes).

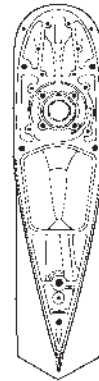
No pitot.



Side View



Rear View



Top View

Small Gearcase V4 60° (1995-2006)

Physical Characteristics:

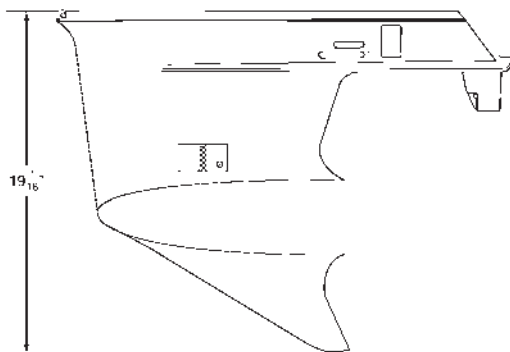
19-1/6" tall.

Curved at the trailing end of the gear housing and the fin.

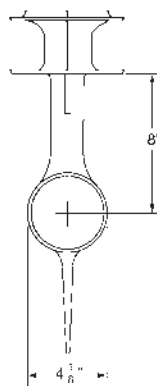
Flat at the trailing end of the cavitation plate.

Two slots above the cavitation plate.

External water intake screens.



Side View



Rear View



Top View

Johnson / Evinrude

V4/V6 LARGE GEARCASE IDENTIFICATION

Large Gearcase "O" Type V4 & V6 (1979-2006)

Physical Characteristics:

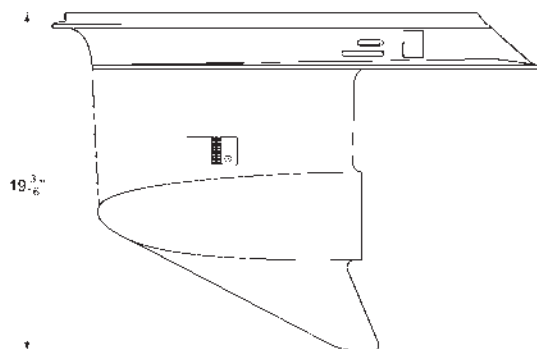
19-3/16" tall.

Straight at the trailing end of the gear housing and the fin.

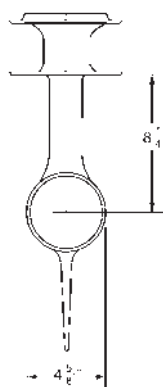
Pointed at the trailing end of the cavitation plate.

Two slots above the cavitation plate.

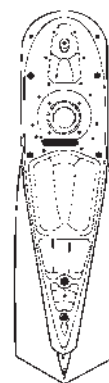
External water intake screens.



Side View



Rear View



Top View

Large Gearcase "M" Type V4 & V6 (2002-2006)

Physical Characteristics:

19-3/16" tall.

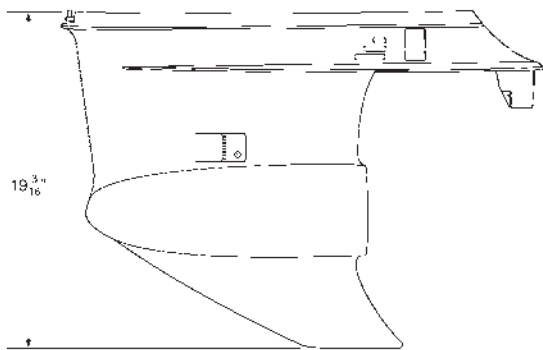
Curved at the trailing end of the gear housing and the fin.

Flat at the trailing end of the cavitation plate.

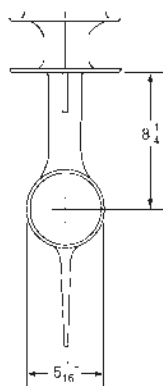
Three slots above the cavitation plate.

External water intake screens.

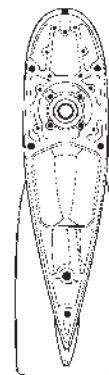
Includes speedo pitot.



Side View



Rear View



Top View

Johnson / Evinrude

V4 60° & V4 90° COMPLETE GEARCASE ASSEMBLY

V4 60° (1995-Up)

No. 28510

COMPLETE GEARCASE
OEM: 5004632
GLM Gear Set No. 22630

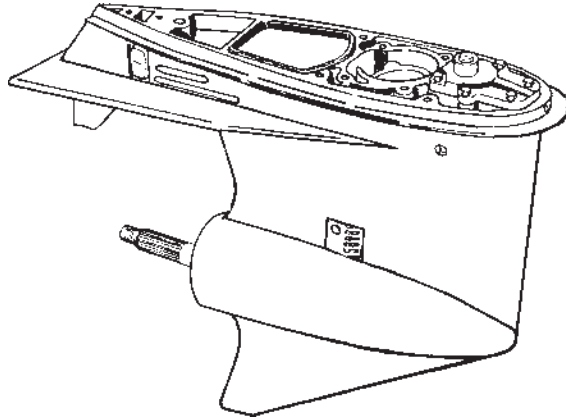


No. 28500

EMPTY GEARCASE
OEM: 5004767



For V4 60° w/ 20" shaft (1995-2005)
For 75 & 80 HP Inline 3-Cyl. E-Tec
w/ 20" shaft (2004-2006)



V4 90° (1978-1998)

No. 28210

COMPLETE GEARCASE
OEM: 5000356
GLM Gear Set No. 22630

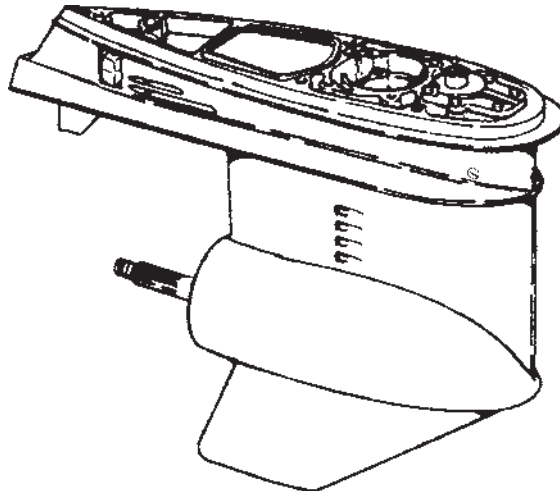


No. 28200

EMPTY GEARCASE
OEM: 431642



For V4 90°(1978-1998)



Must use Bearing Carrier
GLM No. 11388 with
this empty gearcase

No. 11388

BEARING CARRIER
OEM: N/A



Johnson / Evinrude

V4/V6 COMPLETE GEARCASE ASSEMBLY - "O" TYPE

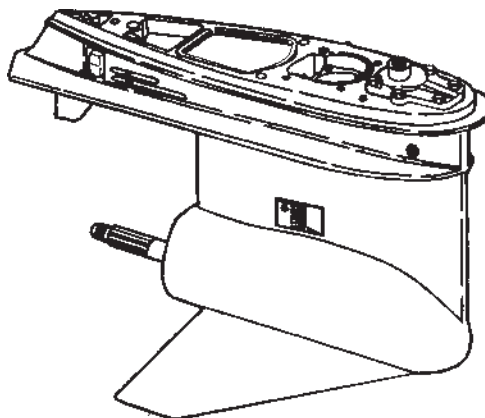
"O" Type V4 & V6 (1978-Up)

No. 28880



COMPLETE GEARCASE
W/OUT SPEEDO
OEM: 5004639
GLM Gear Set No. 22650

V4 Gear Ratio: 2.25:1 (.44), 12:27



No. 28800

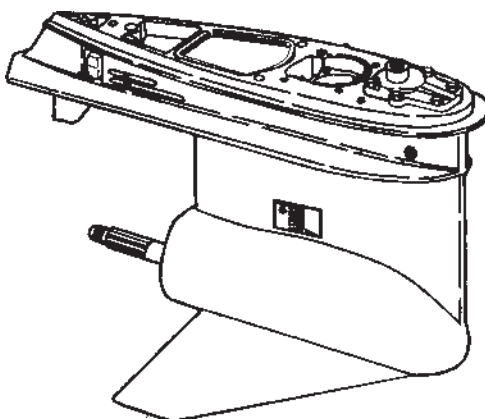
EMPTY GEARCASE
W/OUT SPEEDO
OEM: 439972
EMPTY GEARCASE
W/OUT SPEEDO
OEM: 438048

For V4 (1978-2006)
Crossflow 1983-1996
60° Loopcharged 1995-1998
90° Loopcharged 1985-1998

No. 28810

COMPLETE GEARCASE
W/OUT SPEEDO
OEM: 5005401
GLM Gear Set No. 22666

V6 Gear Ratio: 1.83:1 (.55), 12:22 Heavy Duty



No. 28800

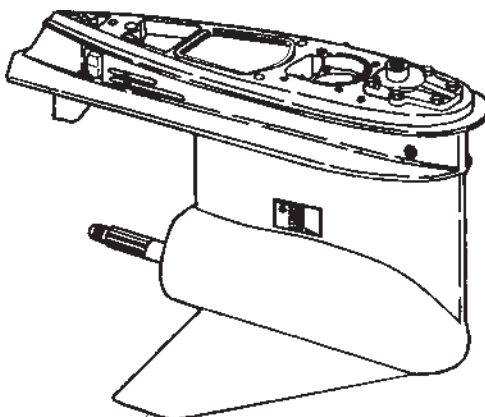
EMPTY GEARCASE
W/OUT SPEEDO
OEM: 439972
EMPTY GEARCASE
W/OUT SPEEDO
OEM: 438048

For V6 (1978-2006)
Crossflow (1979-1992)
60° Loopcharged (1991-2005)
90° Loopcharged (1986-2005)

No. 28710

COMPLETE GEARCASE
W/ SPEEDO
OEM: 5004635
GLM Gear Set No. 22666

V6 Gear Ratio: 1.83:1 (.55), 12:22 Heavy Duty



No. 28700

EMPTY GEARCASE
W/ SPEEDO
OEM: 439973

For V6 (1978-2006)
Crossflow (1979-1992)
60° Loopcharged (1991-2001)
90° Loopcharged (1986-2001)

Johnson / Evinrude

GEARCASE ASSEMBLY APPLICATIONS

Motor	Year	Complete	Housing	Motor	Year	Complete	Housing
V4 Crossflow 20"	1988-98	28210	28200	V6 Crossflow 20" & 90° Loopcharged	88-91	28710	28700
V4 Crossflow 25"	1988-91	28210	28200	V6 Crossflow 25" & 90° Loopcharged	88-91	28710	28700
65 Jet (90 hp)	All	Not Serviced	-	V6 Crossflow 20" & 90° Loopcharged C/R	88-91	-	28700
100 WPL 20"	1999	28880	28800	V6 90° Loopcharged 20" w/ Internal Screens	92-99	28710	28700
100 WPX 25"	1999	28880	28800	V6 90° Loopcharged 20" w/ External Screens	92-99	28810	28800
100 Comm. 20" Small	1992-97	28210	28200	V6 90° Loopcharged 25"	92-99	28810	28800
100 Comm. 20" Large	1988-97	28880	28800	V6 90° Loopcharged 25" C/R	92-99	-	28800
100 Comm. 25" Large	1988-97	28880	28800	V6 90° Loopcharged 30"	93-99	28810	28800
100 WQL 20"	1998	28510	28500	V6 90° Loopcharged 30" C/R	93-99	-	28800
100 WQX, 105 WEX 25"	1998	28880	28800	200 Comm. 20"	93-99	28810	28800
105 Comm. WPL 20"	2000-01	28880	28800	200 Comm. 25"	93-99	28810	28800
105 Comm. WPX 25"	2000-01	28880	28800	V8 20"	88-98	-	-
105 Comm. WEL 20"	2000-01	28880	28800	V8 25"	88-98	-	-
105 WEL 20"	1998	28880	28800	V8 30"	93-96	-	-
105 WRL 20"	1997-98	28880	28800	V8 20" C/R	90-96	-	-
105 WRX 25"	1997-98	28880	28800	V8 25" C/R	88-98	-	-
105 RWL 20"	1998	28880	28800	V8 30" C/R	93-96	-	-
105 RWY 22.5"	1998	28880	28800				
105 RWX 25"	1998	28880	28800				
115 FPL/FSL 20"	1999-05	28510	28500				
115 FPX/FX 25"	2000-01	28880	28800				
80 Jet (115 hp)	All	Not Serviced	-				
120/140 20"	1988-94	28210	28200				
120 25"	1988-94	28210	28200				
125 RWL 20"	1995-97	28880	28800				
125 RWY 22.5"	1995-98	28880	28800				
125 WTPL 20"	1992-98	28880	28800				
125 WTPX 25"	1988-98	28880	28800				
125 ESX	1989-91	28210	28200				
125 ESX Club Nautico	1992-94	28210	28200				
130 20"	1995-98	28880	28800				
130 25"	1995-98	28880	28800				
130 25" C/R	1995-97	-	28800				
135 FPL/FL 20"	2000-01	28710	28700				
135 FSL/FS 20"	2000-01	28810	28800				
135 FPX/FX 25"	2000-01	28810	28800				
140 25"	1988-94	28880	28800				
140 25" C/R	1988-94	-	28700				
V4 60° Loopcharged 20" GL W/ Pitot Hole	1995-06	28510	28500				
V4 60° Loopcharged 20" (Use Pitot Style)	1995-06	28510	28500				
V4 60° Loopcharged 25"	1995-06	28880	28800				
V6 60° Loopcharged 20" W/ External Screens	1995-00	28810	28800				
V6 60° Loopcharged 25" W/ External Screens	1991-99	28810	28800				
V6 60° Loopcharged 25" C/R	1992-99	-	28800				
105 Jet (150 HP)	All	Not Serviced	-				
150 Comm. 20"	1993-99	28810	28800				
150 Comm. 25"	1993-99	28810	28800				
155 Comm. 20"	1988-92	28810	28800				
155 Comm. 25"	1988-92	28810	28800				

Section 2

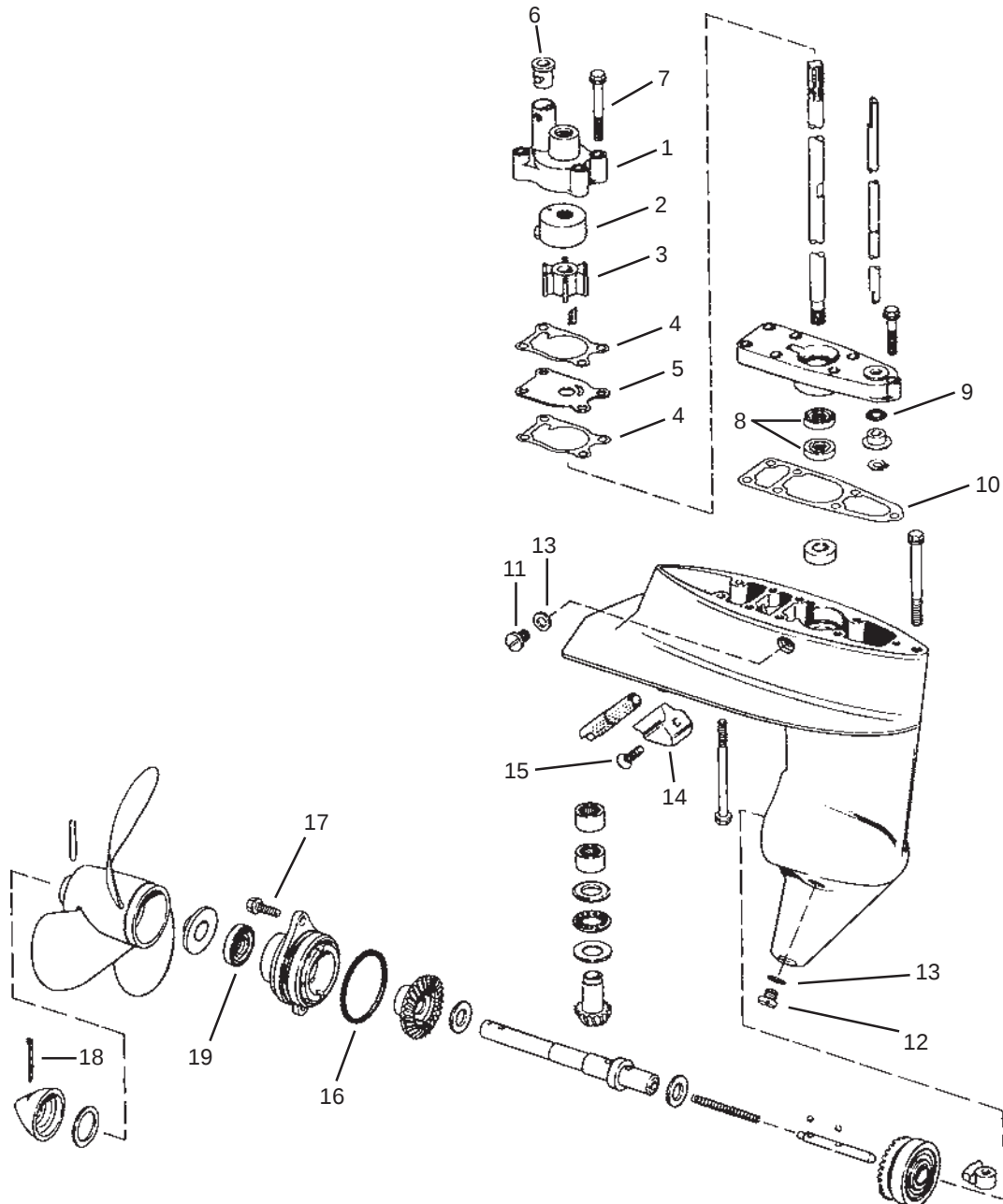
Johnson / Evinrude Gearcase Exploded Views

<i>Gearcase Components - 4, 4.5, 5, 6, 7.5, 8 HP (1980 & Up)</i>	<i>10-11</i>
<i>Gearcase Components - 9.9-15 HP (1974 & Up)</i>	<i>12-13</i>
<i>Gearcase Components - 20-35 HP - Thru-Prop Exhaust</i>	<i>14-15</i>
<i>Gearcase Components - Crossflow - Thru-Cavitation Plate Exhaust</i>	<i>16-17</i>
<i>Gearcase Components - Loopcharged - Small Gearcase</i>	<i>18-21</i>
<i>Gearcase Components - Loopcharged - Large Gearcase</i>	<i>22-23</i>
<i>Gearcase Components - V4 60° (1995-2005)</i>	<i>24-25</i>
<i>Gearcase Components - V4 90° (1978-1998)</i>	<i>26-27</i>
<i>Gearcase Components - V4/V6 "O" Type (1979-2006)</i>	<i>28-29</i>
<i>Gearcase Components - V4/V6 "M" Type (2002-2006)</i>	<i>30-31</i>
<i>Gearcase Components - V6 Hydraulic Shift (1976-1978)</i>	<i>32-33</i>

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GEARCASE COMPONENTS - 4, 4.5, 5, 6, 7.5, 8 HP (1980 & UP)

2-Stroke



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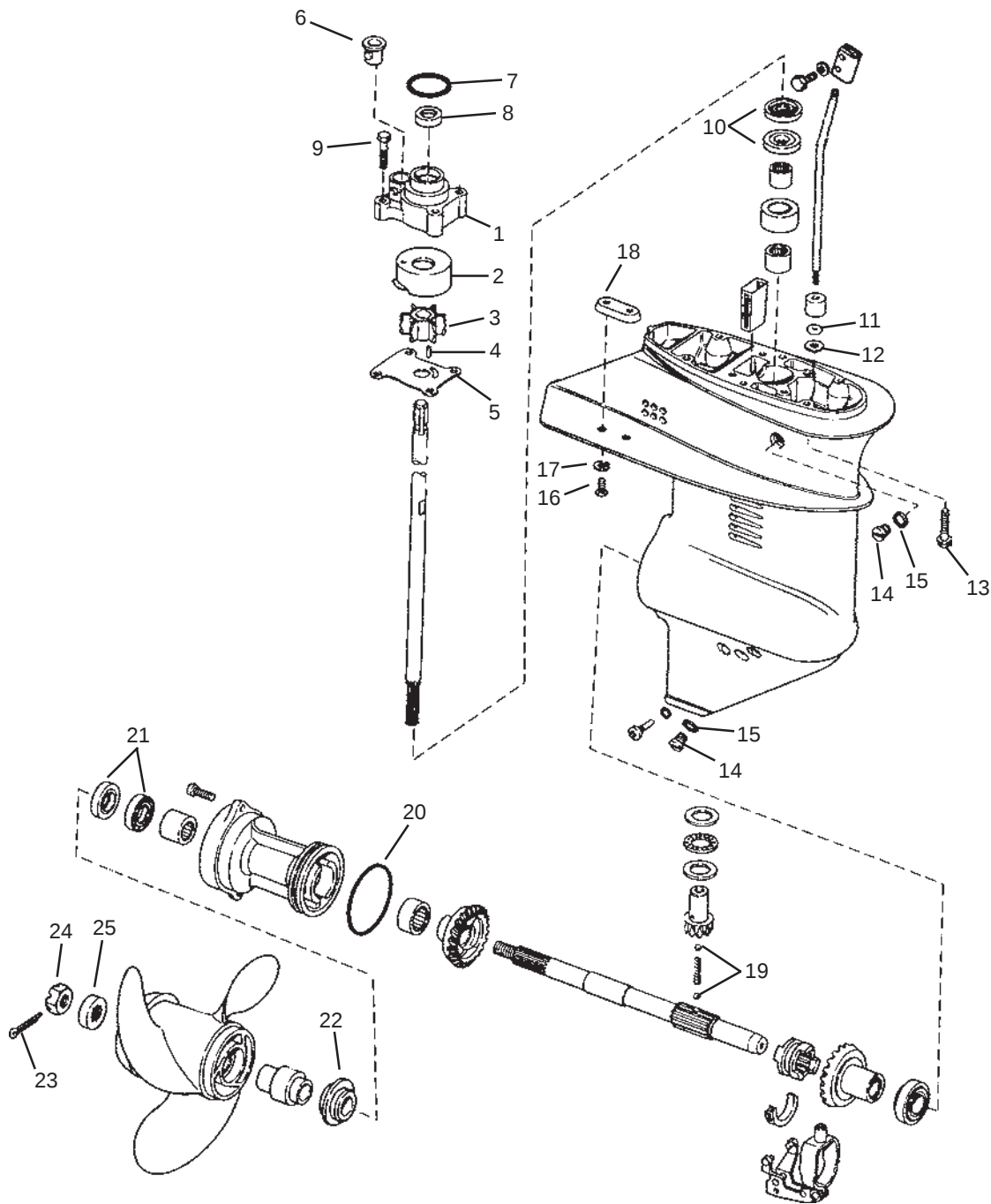
GEARCASE COMPONENTS 4, 4.5, 5, 6, 7.5, 8 HP (1980 & UP)

[illegible]

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GEARCASE COMPONENTS - 9.9-15 HP (1974 & UP)

2-Cyl. 2-Stroke Thru-Prop Exhaust



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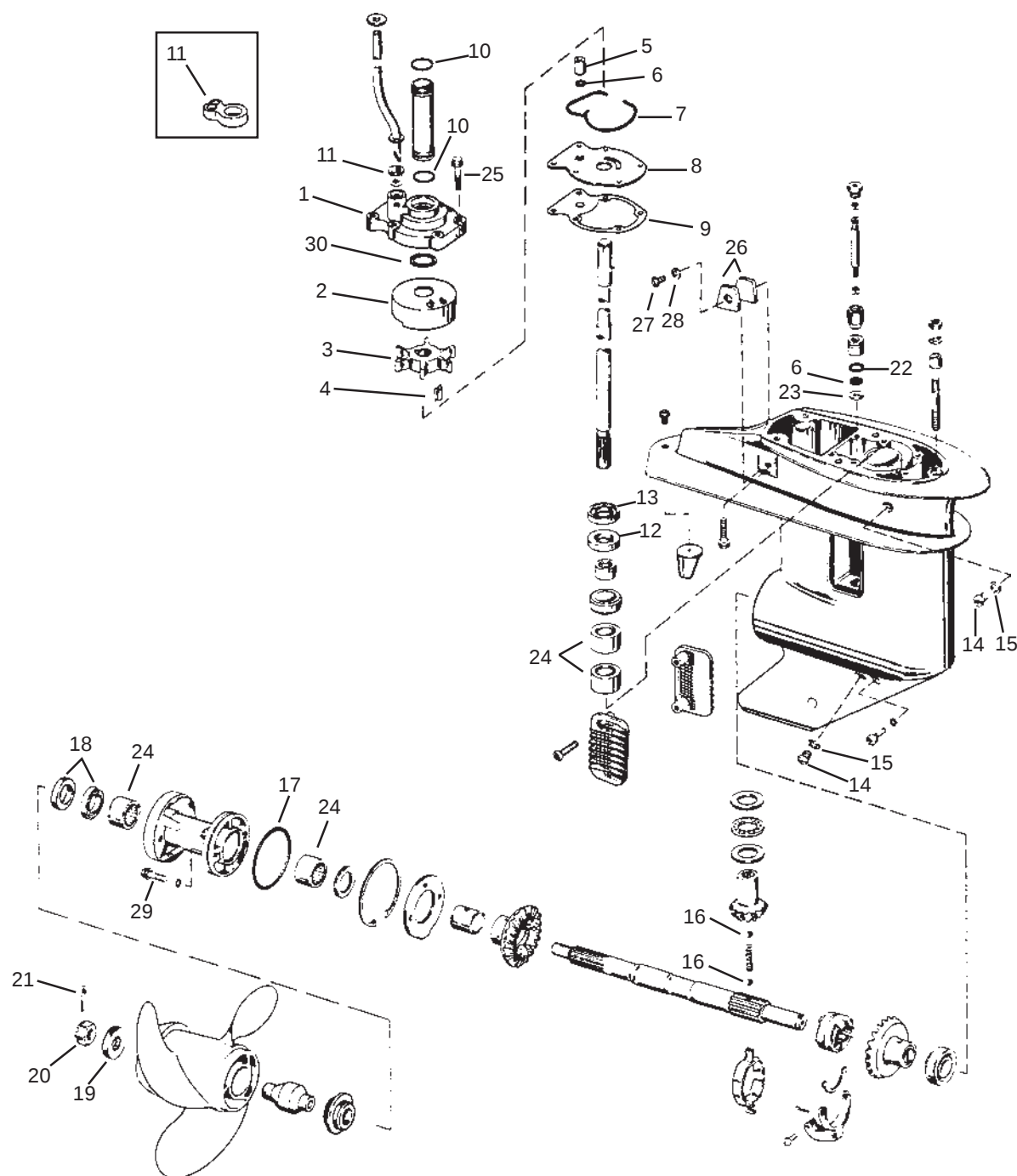
GEARCASE COMPONENTS - 9.9-15 HP (1974 & UP)

[illegible]

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GEARCASE COMPONENTS - 20-35 HP - THRU-PROP EXHAUST

20-35 HP 2-Cyl. Crossflow (1980-2005)
25, 30, 35 HP 3-Cyl. Loopcharged (1996-2001)



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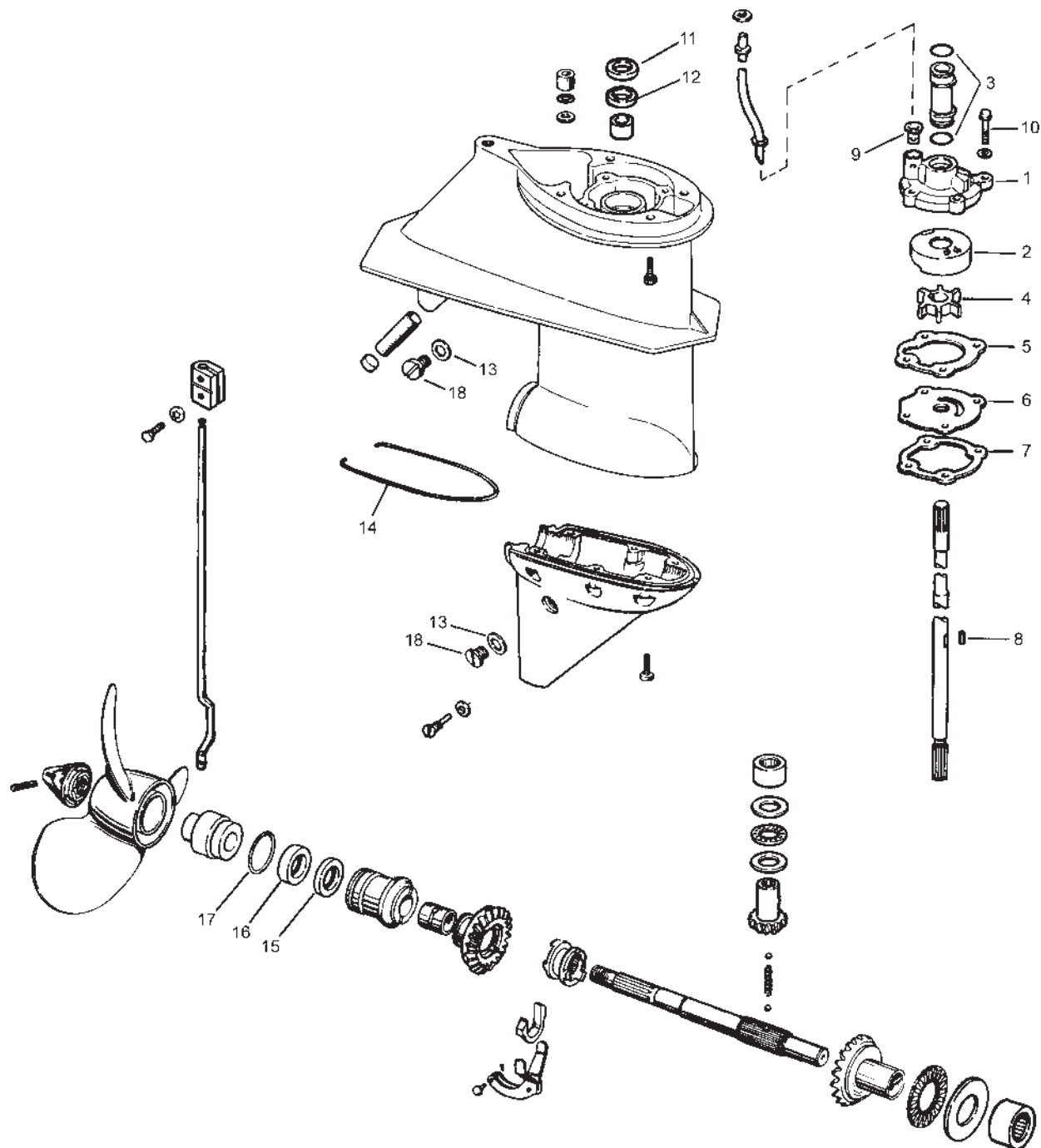
GEARCASE COMPONENTS - 20-35 HP - THRU-PROP EXHAUST

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GEARCASE COMPONENTS - CROSSFLOW - THRU-CAVITATION PLATE EXHAUST

25-28 HP, 2-Cyl. Crossflow (1978-1997)



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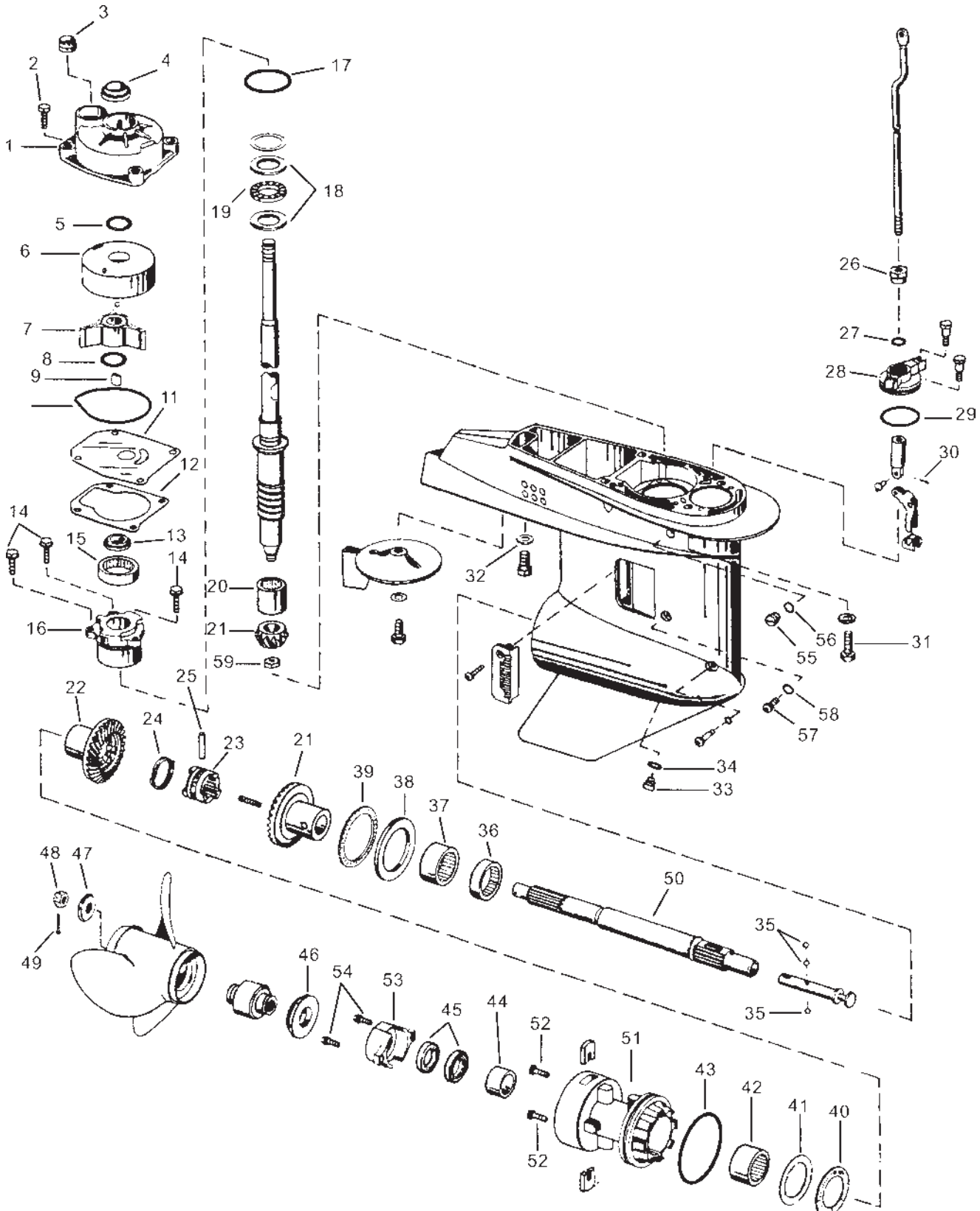
GEARCASE COMPONENTS - CROSSFLOW - THRU-CAVITATION PLATE EXHAUST

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GEARCASE COMPONENTS - LOOPCHARGED - SMALL

2-Cyl. Loopcharged 40-50 HP (1989-2005)



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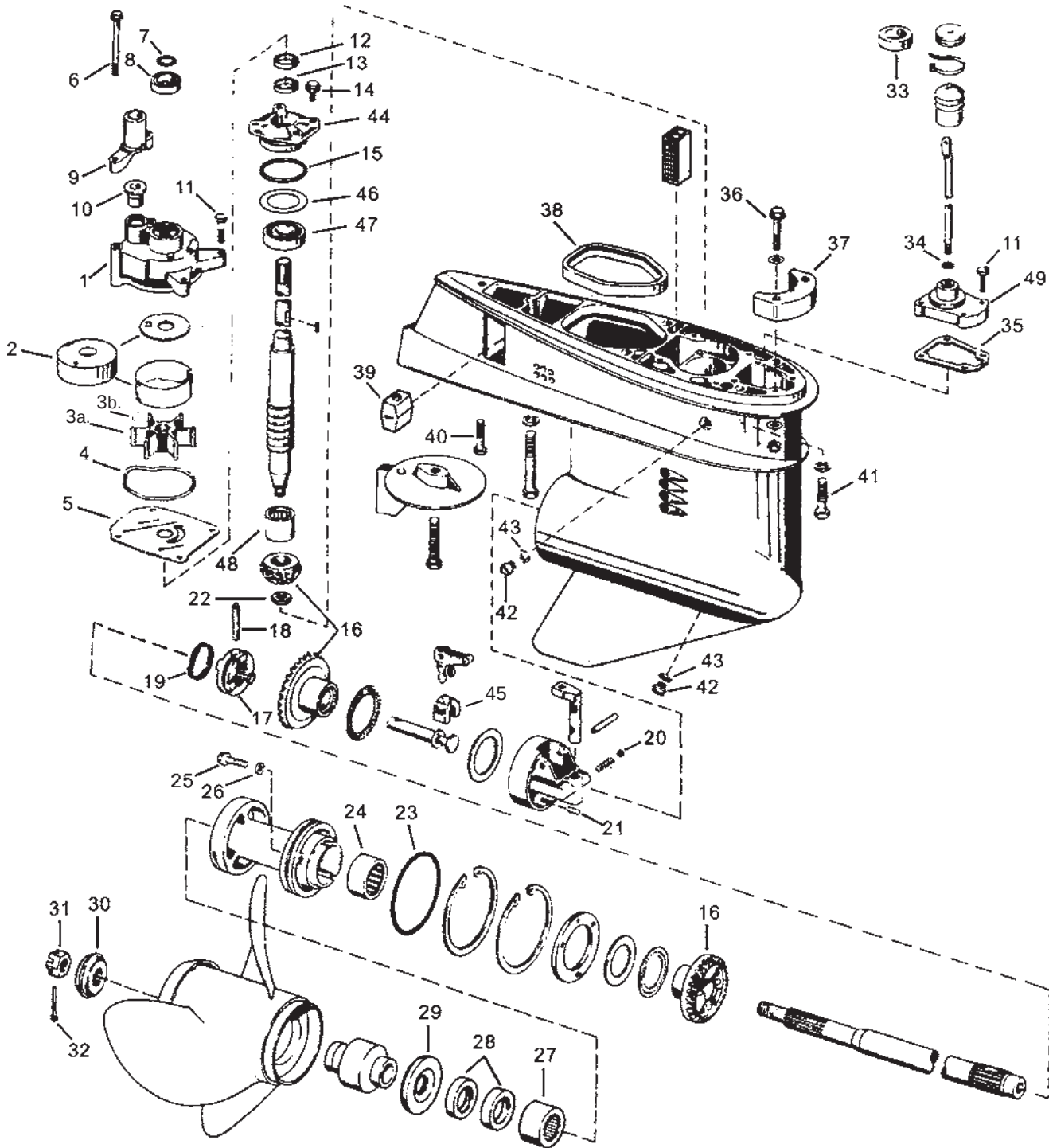
GEARCASE COMPONENTS - LOOPCHARGED - SMALL							
GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
12480	1	438544	Pump Housing (1989-98)	11416	51	432276	Bearing Carrier
12482	1	438545	Pump Hsg. (1995-01) (2004-05)	22395	52	328744	Screw
22360	2	302325	Screw	12742	53	398873	Anode
86497	3	333758	Grommet	22392	54	328694	Screw
86491	4	341732	Grommet	22393	55	309243	Screw
82100	5	310584	O-ring	45290	56	336982	O-ring
12815	6	340619	Pump Cup	22394	57	324852	Screw
89790	7	432941	Impeller (1989-1994)	86659	58	332584	Seal
89460	7	437059	Impeller (1995-2002)	11192	59	313339	Pinion Nut
81250	8	331188	O-ring				
89592	9	334897	Key				
86570	10	324981	Seal				
12550	11	341038	Wear Plate				
33150	12	336530	Gasket				
86013	13	342786	Oil Seal				
22362	14	317624	Screw				
11422	15	398874	Bearing				
27790	16	435274	Bearing Housing Assembly				
82250	17	310327	O-ring				
21649	18	333771	Thrust Washer				
16370	19	398901	Thrust Bearing				
11430	20	382343	Bearing				
22661	21	397627	Gear Set				
22662	22	332489	Reverse Gear				
22663	23	332491	Clutch Dog				
11051	24	320311	Spring				
21133	25	320310	Cross Pin				
27942	26	333780	Bushing				
45200	27	318372	O-ring				
27940	28	434588	Cover & Bushing Assembly				
82230	29	913921	O-ring				
22145	30	306376	Cotter Pin				
22329	31	305282	Screw				
21674	32	330265	Washer				
21731	33	318544	Draining Screw				
31171	34	311598	Gasket				
22490	35	316506	Ball				
22940	36	432264	Bearing				
22870	37	382407	Bearing				
21648	38	333725	Thrust Washer				
16360	39	397538	Thrust Bearing				
16350	40	397537	Thrust Bearing				
21647	41	332514	Thrust Washer				
22890	42	386764	Bearing				
82360	43	553126	O-ring				
22900	44	386765	Bearing				
86060	45	321467	Oil Seal				
22240	46	320305	Thrust Washer				
22250	47	315810	Prop Spacer				
22150	48	314503	Prop Nut				
22120	49	314502	Cotter Pin				
22421	50	439138	Prop Shaft				

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GEARCASE COMPONENTS - LOOPCHARGED - SMALL

2-Cyl. Loopcharged 40-60 HP (1975-1988)

3-Cyl. Loopcharged 60-75 HP (1975-1988)



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GEARCASE COMPONENTS - LOOPCHARGED - SMALL

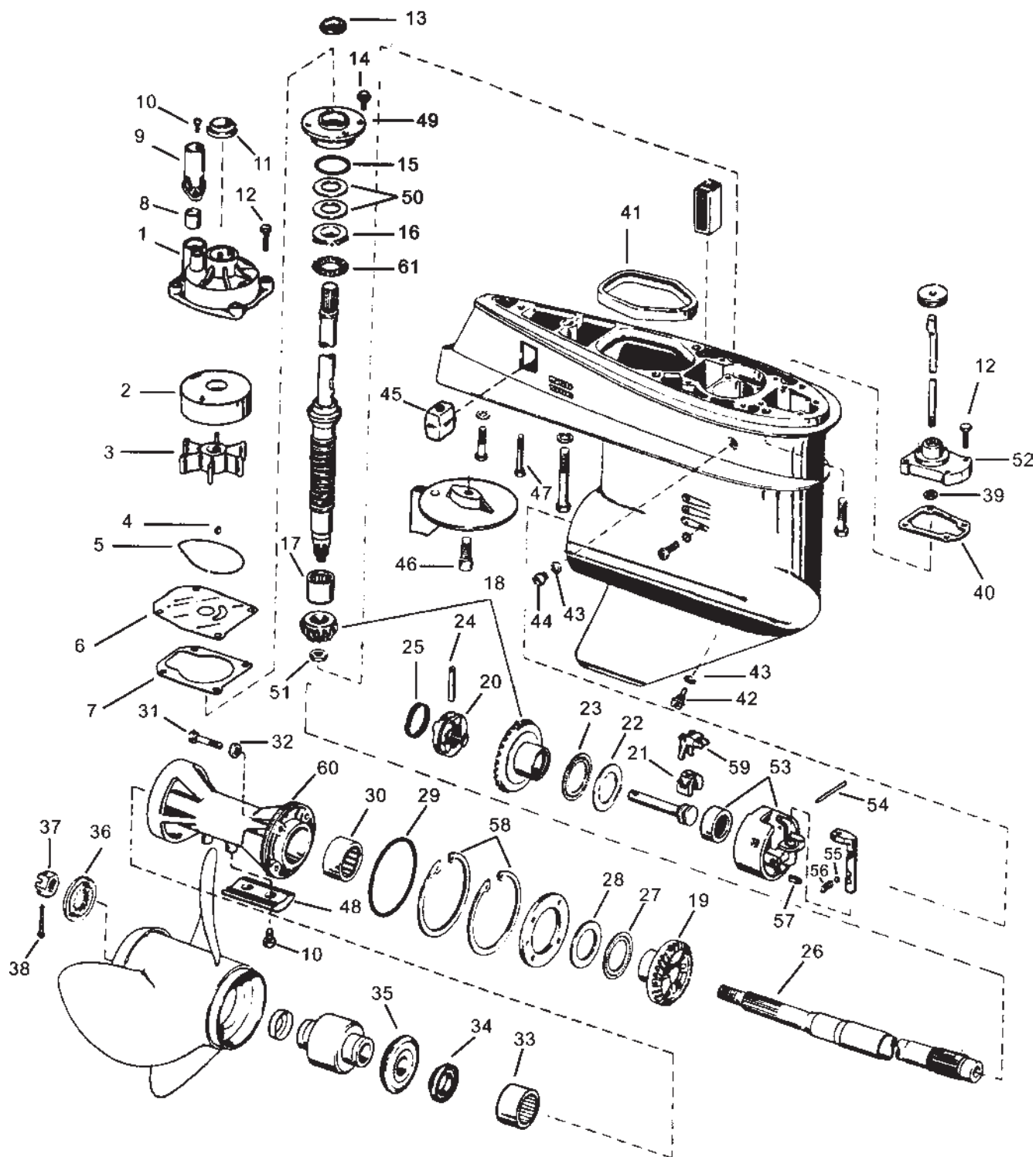
GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
12450	1	384087	Pump Housing	21511	47	385175	Bearing
12814	2	320775-6	Pump Cup	11423	48	386766	Pinion Bearing
89660	3a.	377230	Impeller (1975-1978)	27756	49	387336	Cover & Seal Assembly
89595	3b.	308928	Key (1975-1978)				
89780	3a.	396809	Impeller (1979-1988)				
89591	3b.	331901	Key, White (1979-1988)				
89593	3b.	344470	Key, Black (1979-1988)				
86580	4	315788	Seal				
12620	5	320981	Wear Plate				
22324	6	331980	Screw				
81120	7	303059	O-ring				
86491	8	341732	Grommet				
12940	9	315838	Tube Guide				
86494	10	315837	Grommet				
22360	11	302325	Screw				
86460	12	332205	Oil Seal				
86160	13	321466	Oil Seal				
86013	12,13	342786	Oil Seal (one piece)				
22327	14	909386	Screw				
82240	15	302588	O-ring				
22681	16	433570	Gear Set				
22683	17	319895	Clutch Dog				
22044	18	320310	Cross Pin				
11051	19	320311	Spring				
22491	20	160084	Detent Ball				
21138	21	331880	Pin				
11192	22	313339	Pinion Nut				
82320	23	320303	O-ring				
22890	24	386764	Bearing				
22400	25	320041	Screw				
80100	26	332584	O-ring				
22900	27	386765	Bearing				
86060	28	321467	Oil Seal				
22240	29	320305	Thrust Washer				
22250	30	315810	Prop Spacer				
22150	31	314503	Prop Nut				
22120	32	314502	Cotter Pin				
86140	33	305762	Grommet				
45200	34	318372	O-ring				
33420	35	314082	Gasket				
22322	36	324430	Screw				
12738	37	392462	Anode				
86210	38	324937	Seal				
12776	39	436745	Anode				
22366	40	328096	Screw				
22329	41	305282	Screw				
22420	42	307551	Screw				
31171	43	311598	Gasket				
22728	44	387067	Bearing Housing & Seal				
27730	45	334163	Cradle				
23530	46	320166	Shim .003				
23540	46	320167	Shim .004				
23550	46	320168	Shim .005				

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GEARCASE COMPONENTS - LOOPCHARGED - LARGE

2-Cyl. Loopcharged 40-60 HP (1975-2006)

3-Cyl. Loopcharged 60-75 HP (1975-2001)



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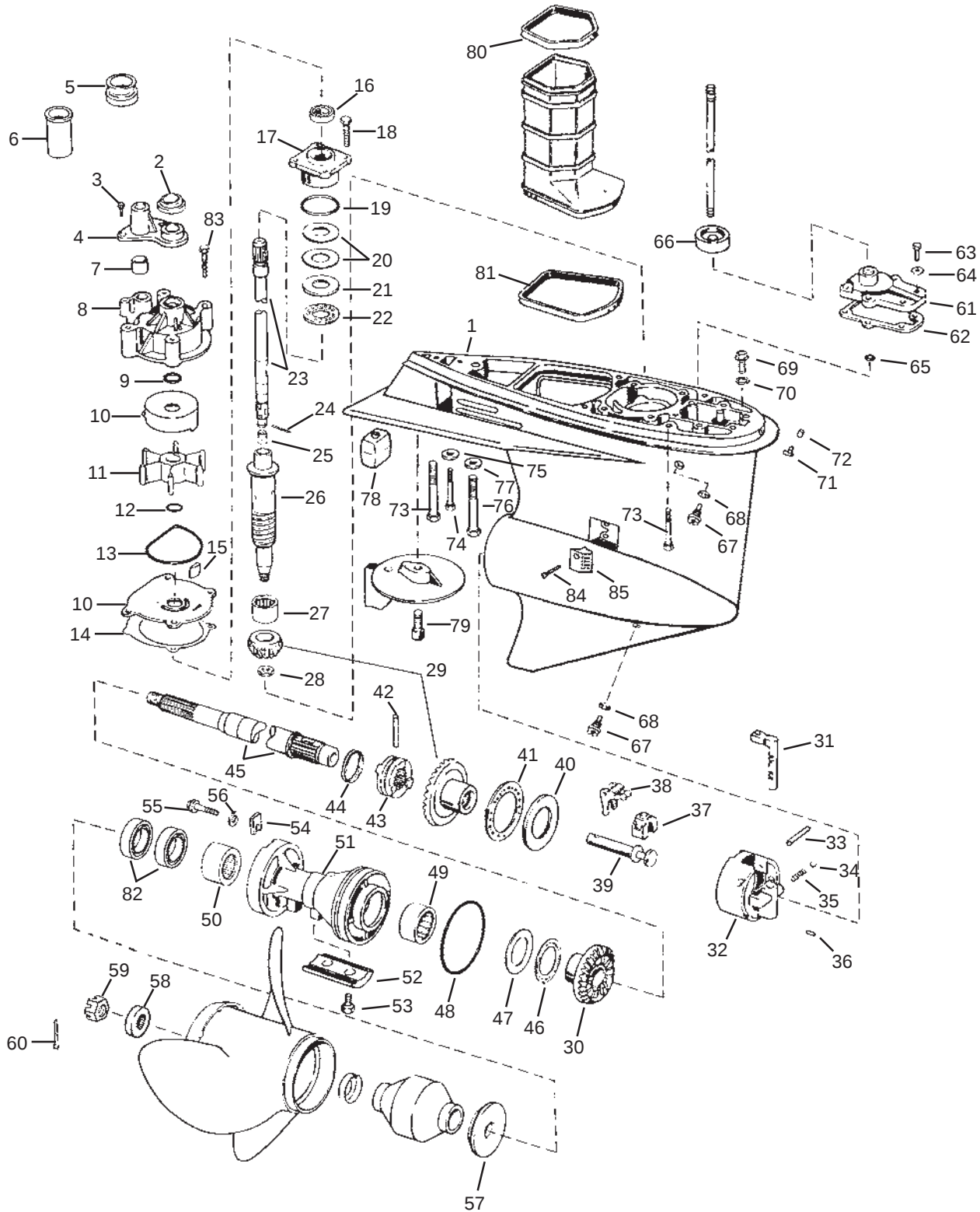
GEARCASE COMPONENTS - LOOPCHARGED - LARGE

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
12400	1	438543	Pump Housing	22722	49	385087	Bearing Housing & Seal
12815	2	340619	Pump Cup	22726	49	435519	Bearing Housing & Seal
89940	3	382547	Impeller (1975-1978)	23600	50	323889	Shim .003
89710	3	396725	Impeller (1979-2006)	23610	50	323890	Shim .004
89595	4	308928	Key (1975-1978)	23620	50	317232	Shim .005
89591	4	331901	Key, White (1979-2006)	11192	51	313339	Pinion Nut
89592	4	334897	Key, Black (1979-2006)	27754	52	388651	Cover & Seal Assembly
34330	5	319586	Gasket (1975-1978)	27702	53	391365	Housing & Bearing Assembly
86570	5	324981	Seal (1979-2006)	21105	54	320145	Pin
12551	6	341038	Wear Plate	22493	55	327345	Detent Ball
33150	7	336530	Gasket	11039	56	911961	Spring
86490	8	314008	Grommet	21138	57	331880	Pin
12950	9	319276	Tube Guide	21774	58	313445	Retaining ing
22320	10	908158	Screw	27741	59	324037	Lever
86491	11	341732	Grommet	11390	60	434391	Bearing Carrier
22360	12	302325	Screw	16320	61	385068	Thrust Bearing
86013	13	342786	Oil Seal				
22327	14	909386	Screw				
81340	15	313754	O-ring				
21643	16	317230	Thrust Washer				
11430	17	382343	Bearing				
22671	18	397338	Gear Set				
22672	19	318304	Reverse Gear				
22673	20	318303	Clutch Dog				
27730	21	334163	Cradle				
21644	22	324766	Thrust Washer				
16310	23	385043	Thrust Bearing				
21135	24	313448	Cross Pin				
11052	25	324369	Spring				
22418	26	439185	Prop Shaft				
16300	27	382408	Thrust Bearing				
21641	28	313447	Thrust Washer				
82370	29	313446	O-ring				
22870	30	382407	Bearing				
22400	31	320041	Screw				
81100	32	332584	O-ring				
22860	33	379504	Bearing				
86030	34	330137	Oil Seal				
22230	35	127084	Thrust Washer				
22250	36	315810	Prop Spacer				
22150	37	314503	Prop Nut				
22120	38	314502	Cotter Pin				
45200	39	318372	O-ring				
33420	40	314082	Gasket				
86210	41	324937	Seal				
21731	42	318544	Draining Screw				
31170	43	311598	Gasket				
22420	44	307551	Screw				
12776	45	436745	Anode				
22368	46	313715	Screw				
22366	47	328096	Screw				
12737	48	431708	Anode				

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GEARCASE COMPONENTS - V4 60° (1995-2006)

2.00:1 (.50) Gear Ratio



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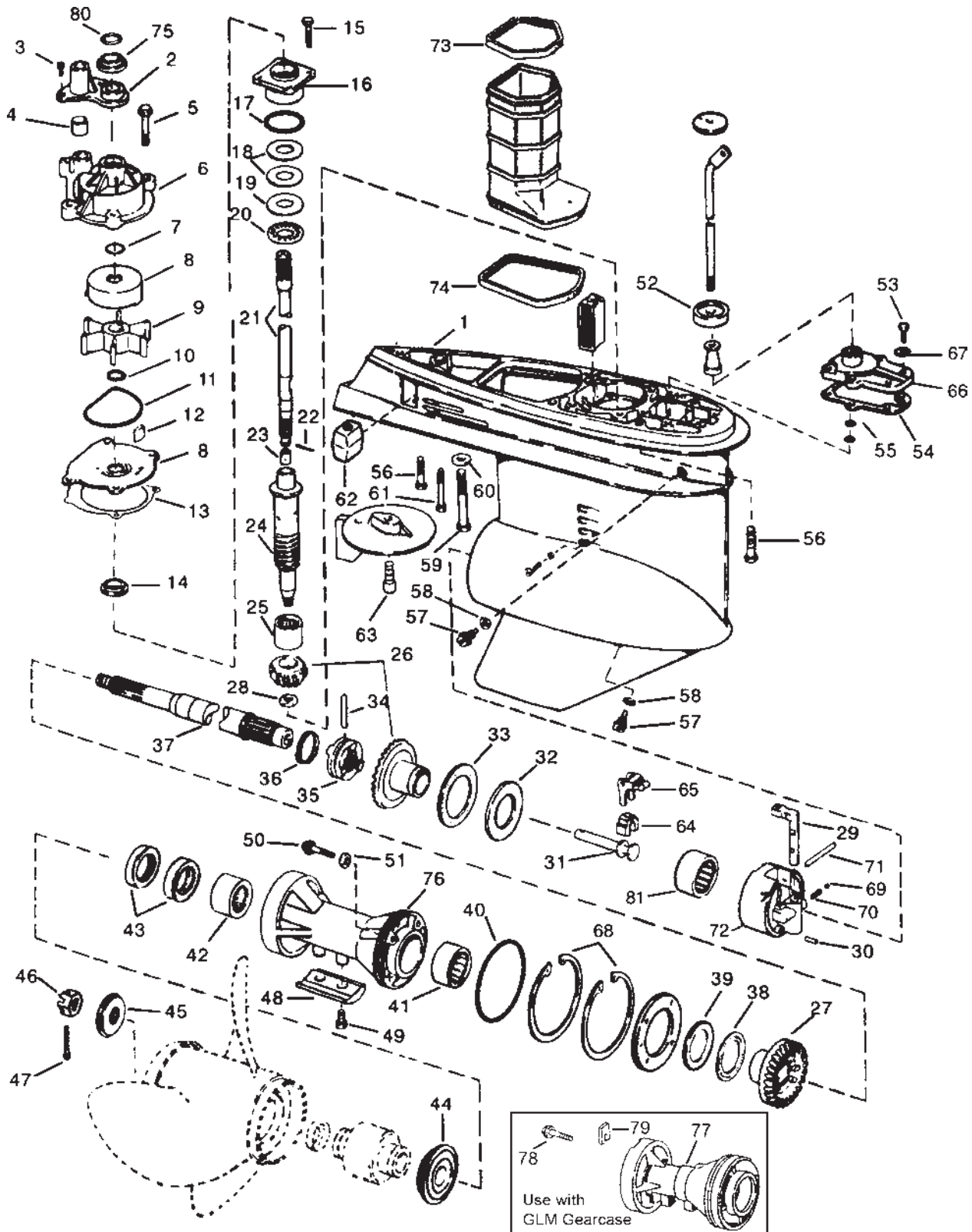
GEARCASE COMPONENTS - V4 60° (1995-2006)

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
28500	1	5004767	Gearcase Assembly	82370	48	313446	O-ring
86480	2	320943	Grommet	22870	49	382407	Bearing
22370	3	306643	Screw	22860	50	379504	Bearing
12570	4	338893	Tube Guide	11398	51	5000440	Bearing Carrier
86495	5	338601	Grommet	12737	52	431708	Anode
12827	6	338636	Tube Spacer (Short)	22320	53	908158	Screw
86490	7	314008	Grommet	27850	54	333957	Tab
12430	8	435959	Pump Housing (25" Transom)	22373	55	350271	Screw
				21659	56	328743	Washer
12395	8	435990	Pump Housing (20" Transom)	22230	57	127084	Thrust Washer (3-Blade)
				22250	58	315810	Spacer
81250	9	331188	O-ring	22150	59	314503	Prop Nut
12880	10	435027	Cup & Plate Assembly	22120	60	314502	Cotter Pin
89570	11	435821	Impeller	27752	61	5006241	Cover & Seal Assembly
82120	12	302035	O-ring	33020	62	324670	Gasket
86660	13	331353	Seal	22360	63	302325	Screw
33730	14	338484	Gasket	21678	64	328702	Washer
89590	15	331107	Key	45200	65	318372	O-ring
86011	16	341280	Oil Seal	86500	66	321008	Grommet
22720	17	439476	Bearing Housing & Seal	21731	67	318544	Draining Screw
22362	18	317624	Screw	31171	68	311598	Gasket
81380	19	314728	O-ring	22374	69	341220	Screw
23590	20	323362	Shim .003	21677	70	437330	Seal Washer
23580	20	323361	Shim .004	28352	71	336535	Nipple
23510	20	314745	Shim .005	28353	72	305749	Cap
21645	21	327656	Thrust Washer	22371	73	331999	Screw
16330	22	387656	Thrust Bearing	22457	74	341219	Screw
22435	23	5000615	Drive Shaft	21763	75	307161	Lockwasher
21139	24	311538	Pin	22458	76	331998	Screw
28351	25	338504	Retainer	21674	77	330265	Washer
22405	26	346004	Lower Drive Shaft	12776	78	436745	Anode
22880	27	384195	Pinion Bearing	22368	79	313715	Screw
11190	28	314730	Nut	85830	80	320936	Seal
22631	29	436746	P / Forward Gear Set	85840	81	320961	Seal
22632	30	345992	Reverse Gear	86030	82	330137	Oil Seal
27720	31	915954	Detent	22360	83	302325	Screw
27702	32	391365	Housing & Bearing Assembly	22363	84	337061	Screw
21105	33	320145	Pin	21885	85	337778	Screen
22493	34	327345	Detent Ball				
11039	35	911961	Spring				
21138	36	331880	Pin				
27730	37	334163	Cradle				
27741	38	324037	Lever				
27710	39	322941	Shaft				
21644	40	324766	Thrust Washer				
16310	41	385043	Thrust Bearing				
21135	42	313448	Pin				
22633	43	323664	Clutch Dog				
11052	44	324369	Spring				
22419	45	436834	Prop Shaft				
16300	46	382408	Thrust Bearing				
21642	47	314731	Thrust Washer				

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GEARCASE COMPONENTS - V4 90° (1978-1998)

2.00:1 (.50) Gear Ratio



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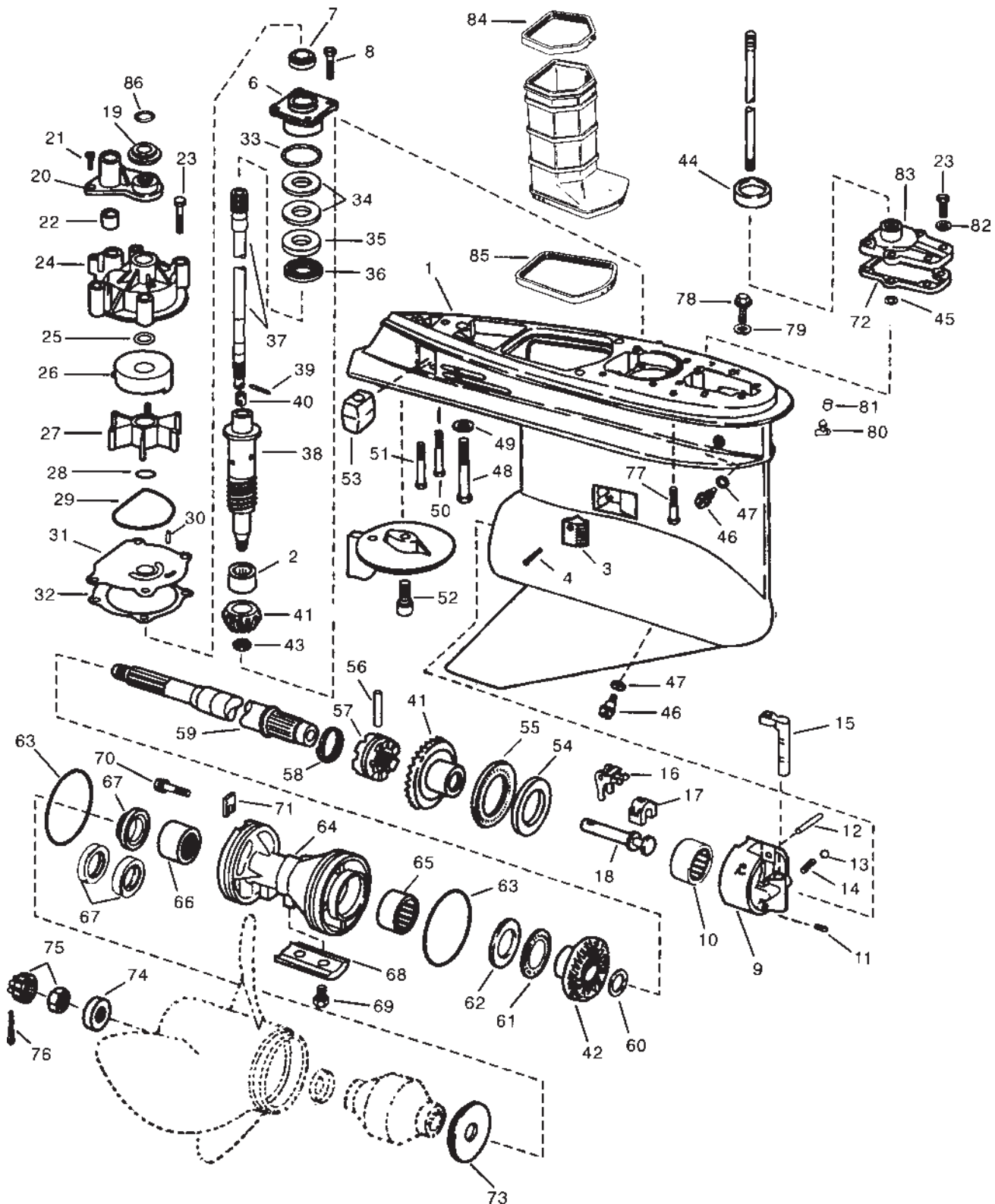
GEARCASE COMPONENTS - V4 90° (1978-1998)

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
28200	1	431642	Gearcase Assembly	22250	45	315810	Spacer
12570	2	338893	Tube Guide	22150	46	314503	Nut
22370	3	306643	Screw	22120	47	314502	Cotter Pin
86490	4	314088	Grommet	12737	48	431708	Anode
22360	5	302325	Screw	22320	49	908158	Screw
12430	6	435959	Pump Housing (25" Transom)	22300	50	316563	Screw & Seal
				86640	51	332583	Seal
12395	6	435990	Pump Housing (20" Transom)	86500	52	321008	Grommet
				22360	53	302325	Screw
81250	7	331188	O-ring	33020	54	324670	Gasket
12880	8	435027	Cup & Plate Assembly	45200	55	318372	O-ring
89570	9	5001593	Impeller	22371	56	331999	Screw
82120	10	302035	O-ring	21731	57	318544	Draining Screw
86660	11	331353	Seal	31171	58	311598	Gasket
89590	12	331107	Key	22365	59	331998	Screw
33730	13	338484	Gasket	21674	60	330265	Washer
86011	14	341280	Oil Seal	22366	61	328096	Screw
22362	15	317624	Screw	12776	62	436745	Anode
22720	16	439476	Bearing Housing & Seal	22368	63	313715	Screw
81380	17	314728	O-ring	27730	64	334163	Cradle
23590	18	323362	Shim .003	27741	65	324037	Lever
23580	18	323361	Shim .004	27752	66	5006241	Cover & Seal Assembly
23510	18	314745	Shim .005	21678	67	328702	Washer
21645	19	327656	Thrust Washer	21774	68	313445	Retaining Ring
16330	20	387656	Thrust Bearing	22493	69	327345	Detent Ball
22431	21	5000618	Drive Shaft (L)	11039	70	911961	Spring
22433	21	5000614	Drive Shaft (L)	21105	71	320145	Pin
22432	21	5000626	Drive Shaft (XL)	27702	72	391365	Housing & Bearing Assembly
22434	21	5000623	Drive Shaft (XL)	85830	73	320936	Seal
21139	22	311538	Pin	85840	74	320961	Seal
28351	23	338504	Retainer	86480	75	320943	Grommet
22409	24	346006	Lower Drive Shaft	11392	76	397087	Bearing Carrier
22880	25	384195	Pinion Bearing	11388	77	GLM	Bearing Carrier
22631	26	436746	P / Forward Gear Set	22373	78	350271	Screw
22632	27	340490	Reverse Gear	27850	79	333957	Tab
11190	28	314730	Nut	81165	80	310585	O-ring
27720	29	915954	Detent	22870	81	382407	Bearing
21138	30	331880	Pin				
27710	31	322941	Shaft				
21644	32	324766	Thrust Washer				
16310	33	385043	Thrust Bearing				
21135	34	313448	Cross Pin				
22633	35	323664	Clutch Dog				
11052	36	324369	Spring				
22416	37	436888	Prop Shaft				
16300	38	382408	Thrust Bearing				
21642	39	314731	Thrust Washer				
82370	40	313446	O-ring				
22870	41	382407	Bearing				
22860	42	379504	Bearing				
86030	43	330137	Oil Seal				
22230	44	127084	Thrust Washer				

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GEARCASE COMPONENTS - V4/V6 "O" TYPE (1979-2006)

V4 2.25:1 (.44) Gear Ratio - V6 1.86:1 (.54) Gear Ratio



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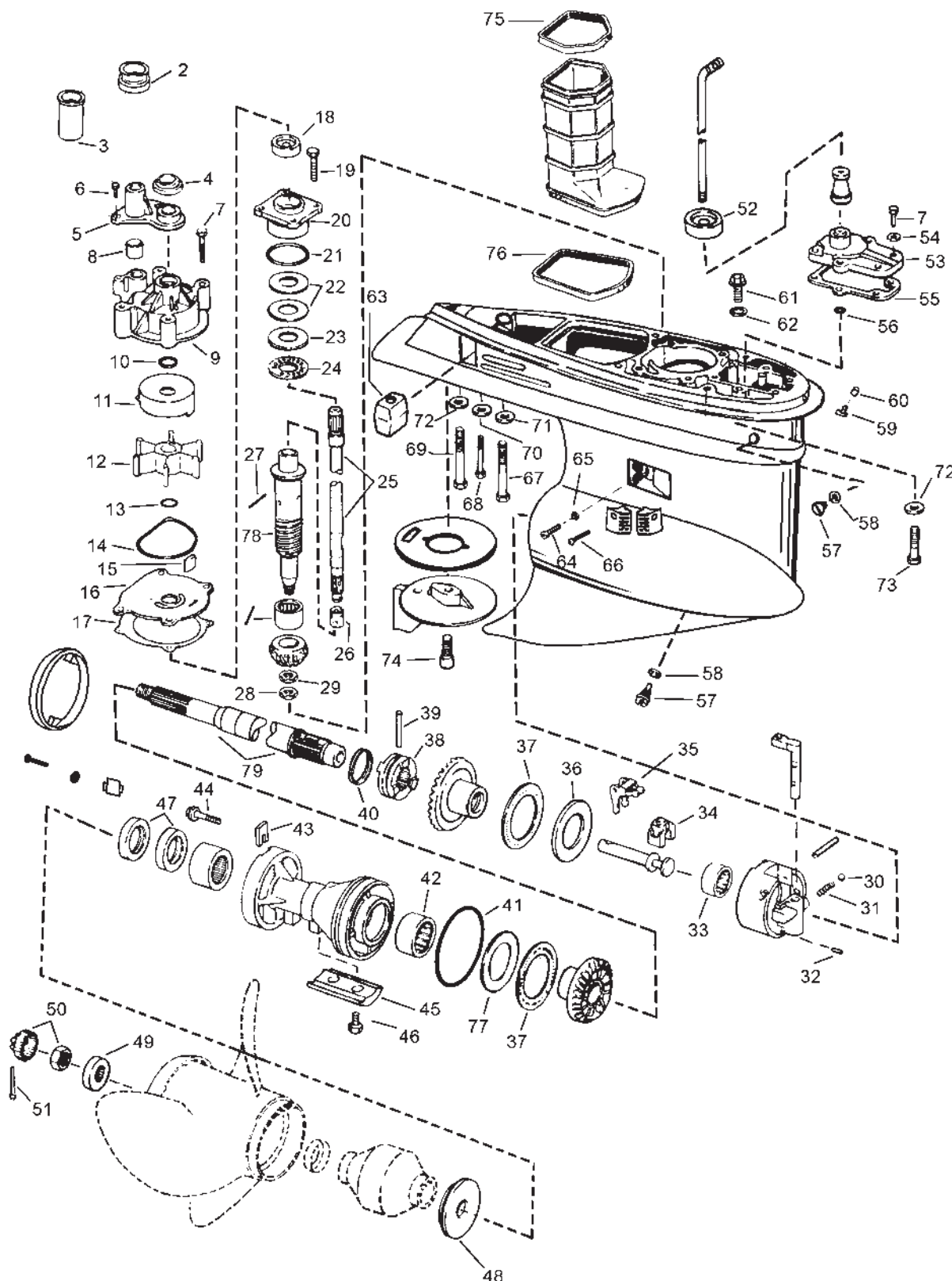
GEARCASE COMPONENTS - V4/V6 "O" TYPE (1979-2006)

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
28700	1	439973	Gearcase Assembly / Tube	11190	43	314730	Nut
28800	1	439972	Gearcase Assembly	86500	44	321008	Grommet
21610	2	387817	Pinion Bearing	45200	45	318372	O-ring
21885	3	337778	Screen	21731	46	318544	Draining Screw
22363	4	337061	Screw	31171	47	311598	Gasket
85840	5	320961	Seal	22365	48	331998	Screw
22720	6	439476	Bearing Housing & Seal	21674	49	330265	Washer
86011	7	341280	Oil Seal	22366	50	328096	Screw
22362	8	317624	Screw	22367	51	330263	Screw
27700	9	389455	Housing & Bearing Assembly	22368	52	313715	Screw
22910	10	389039	Bearing	12776	53	436745	Anode
21138	11	331880	Pin	21646	54	327669	Thrust Washer
21137	12	328825	Pin	16340	55	389042	Thrust Bearing
22491	13	160084	Detent Ball	21135	56	313448	Cross Pin
11055	14	911962	Spring	22625	57	337774	Clutch Dog
27720	15	915954	Detent	11052	58	324369	Spring
27740	16	322938	Lever	22414	59	395209	Prop Shaft (1-3/16") V6
27730	17	334163	Cradle	22417	59	5004765	Prop Shaft (1-1/4") V4/V6
27710	18	322941	Shaft	21651	60	336565	Thrust Washer
86480	19	320943	Grommet	16300	61	382408	Thrust Bearing
12570	20	338893	Tube Guide	21642	62	314731	Thrust Washer
22370	21	306643	Screw	82400	63	305123	O-ring
86490	22	314008	Grommet	11406	64	5000074	Bearing Carrier (1-3/16")
22360	23	302325	Screw	11408	64	5004257	Bearing Carrier (1-1/4")
12430	24	435959	Pump Housing (25" Transom)	22870	65	382407	Bearing
12395	24	435990	Pump Housing (20" Transom)	11410	66	387247	Bearing (Inside ø 1-3/16")
81250	25	331188	O-ring	22950	66	434467	Bearing (Inside ø 1-1/4")
12811	26	338486	Pump Cup	86012	67	341281	Oil Seal (1-1/4") 1 pc.
89570	27	5001593	Impeller	86810	67	334950	Oil Seal (1-1/4") 2 pcs.
82120	28	302035	O-ring	85130	67	320862	Oil Seal (1-3/16") 2 pcs.
86660	29	331353	Seal	12737	68	431708	Anode
89590	30	331107	Key	22320	69	908158	Screw
12580	31	338485	Wear Plate	22373	70	350271	Screw
33730	32	338484	Gasket	27850	71	333957	Tab
81380	33	314728	O-ring	33020	72	324670	Gasket
23590	34	323362	Shim .003	22221	73	126870	Thrust Washer
23580	34	323361	Shim .004	22190	74	320570	Spacer
23510	34	314745	Shim .005	22185	75	398042	Nut & Keeper
21645	35	327656	Thrust Washer	22142	76	306394	Cotter Pin
16330	36	387656	Thrust Bearing	22371	77	331999	Screw
22435	37	5000615	Drive Shaft (Long)	22374	78	341220	Screw
22436	37	5000624	Drive Shaft (XL)	21677	79	437330	Seal Washer
22407	38	345905	Lower Drive Shaft	28352	80	336535	Nipple
21139	39	311538	Pin	28353	81	305749	Cap
28351	40	338504	Retainer	21678	82	328702	Washer
22651	41	435123	P / Forward Gear Set V4	27752	83	5006241	Cover & Seal Assembly
22623	41	5004938	P / Forward Gear Set V6	85830	84	320936	Seal
22653	42	336574	Reverse Gear V4	85840	85	320961	Seal
22624	42	910994	Reverse Gear V6	81165	86	310585	O-ring
22666	41+42	N/A	Gear Set (Heavy Duty)				

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GEARCASE COMPONENTS - V4/V6 "M" TYPE (2002-2006)

V4 2.25:1 (.44) Gear Ratio - V6 1.86:1 (.54) Gear Ratio



Johnson / Evinrude

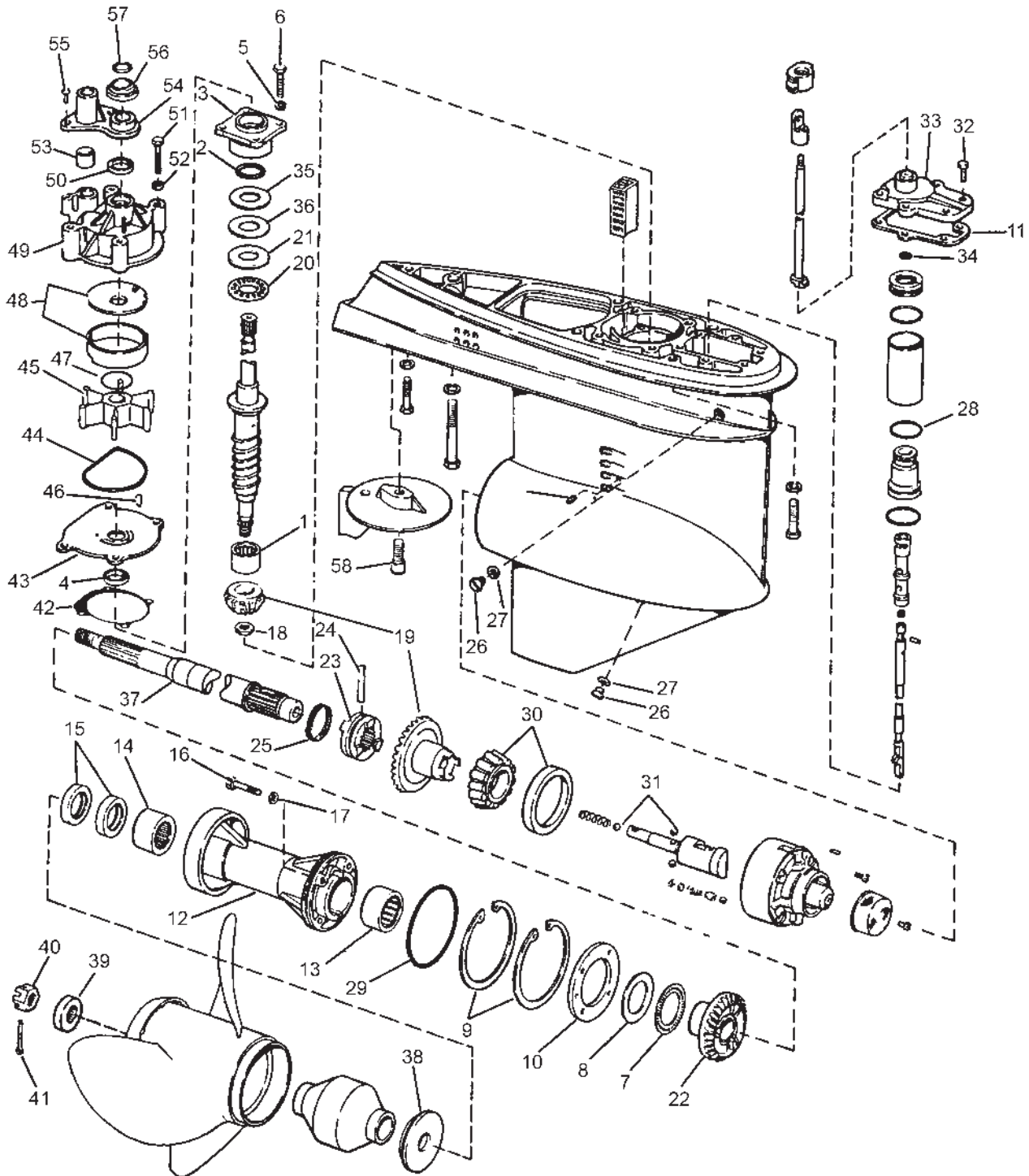
GEARCASE COMPONENTS - V4/V6 "M" TYPE (2002-2006)

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
21610	1	387817	Pinion Bearing	22221	48	126870	Thrust Washer
86495	2	338601	Grommet	22190	49	320570	Spacer
12827	3	338636	Tube Spacer	22185	50	398042	Nut & Keeper
86480	4	320943	Grommet	22142	51	306394	Cotter Pin
12570	5	338893	Tube Guide	86500	52	321008	Grommet
22370	6	306643	Screw	27752	53	5006241	Cover & Seal Assembly
22360	7	302325	Screw	21678	54	328702	Washer
86490	8	314008	Grommet	33020	55	352165	Gasket
12430	9	435959	Pump Housing	45200	56	318372	O-ring
81250	10	331188	O-ring	21731	57	318544	Draining Screw
12811	11	338486	Pump Cup	31171	58	311598	Gasket
89570	12	5001593	Impeller	28352	59	336535	Nipple
82120	13	302035	O-ring	28353	60	305749	Cap
86660	14	331353	Seal	22374	61	341220	Screw
89590	15	331107	Key	21677	62	437330	Seal Washer
12580	16	338485	Wear Plate	12776	63	436745	Anode
33730	17	338484	Gasket	22394	64	324852	Screw
86011	18	341280	Oil Seal	86659	65	332584	Seal
22362	19	317624	Screw	22363	66	337061	Screw
22720	20	439476	Bearing Housing & Seal	22365	67	331998	Screw
81380	21	314728	O-ring	22457	68	341219	Screw
23590	22	323362	Shim .003	22367	69	330263	Screw
23580	22	323361	Shim .004	21763	70	307161	Lockwasher
23510	22	314745	Shim .005	21674	71	330265	Washer
21645	23	327656	Thrust Washer	21762	72	330266	Lockwasher
16330	24	387656	Thrust Bearing	22371	73	331999	Screw
22433	25	5000614	Drive Shaft 20" L	22368	74	313715	Screw
22434	25	5000623	Drive Shaft 25" L	85830	75	320936	Seal
22436	25	5000624	Drive Shaft 25" L	85840	76	320961	Seal
28351	26	338504	Retainer	21654	77	349193	Thrust Washer
21139	27	311538	Pin	22403	78	347371	Lower Drive Shaft
11190	28	314730	Nut	22417	79	5004765	Prop shaft
32800	29	350038	Washer				
22491	30	160084	Detent Ball				
11055	31	911962	Spring				
21138	32	331880	Pin				
22910	33	389039	Bearing				
27730	34	334163	Cradle				
27740	35	322938	Lever				
21646	36	327669	Thrust Washer				
16340	37	389042	Thrust Bearing				
22625	38	337774	Clutch Dog				
21135	39	313448	Cross Pin				
11052	40	324369	Spring				
82440	41	326849	O-ring				
22870	42	382407	Bearing				
27850	43	333957	Tab				
22373	44	350271	Screw				
12737	45	431708	Anode				
22320	46	908158	Screw				
86012	47	341281	Oil Seal - 1 pc.				
86810	47	334950	Oil Seal - 2 pcs.				

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GEARCASE COMPONENTS - V6 (1976-1978)

Hydraulic Shift



Johnson / Evinrude

GEARCASE COMPONENTS - V6 (1976-1978)

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
21610	1	387817	Pinion Bearing	86490	53	314008	Water Tube Grommet
81380	2	314728	O-ring Drive Shaft Bearing	12570	54	338893	Water Tube Cover
22720	3	439476	Bearing Housing & Seal	22370	55	306643	Water Tube Cover Screws
85120	4	321453	Oil Seal, Drive Shaft	86480	56	320943	Water Tube Cover Grommet
N/A	5	301250	Washer, Bearing Housing	81160	57	310585	O-ring
N/A	6	316534	Screw, Bearing Housing	22368	58	313715	Screw, Trim Tab
16300	7	382408	Reverse Thrust Bearing				
21642	8	314731	Reverse Thrust Washer				
N/A	9	321171	Retaining Ring				
N/A	10	321174	Retainer Plate				
N/A	11	321162	Gasket, Shift Cover				
N/A	12	387374	Bearing Carrier, Prop Shaft				
N/A	13	382407	Reverse Gear Bearing				
11410	14	387247	Needle Bearing, Prop Shaft				
85130	15	320862	Prop Shaft Seal				
22300	16	316563	Carrier Retainer Screw				
N/A	17	317178	O-ring Carrier Screw				
11190	18	314730	Pinion Nut				
22621	19	320635	Pinion & Forward Gear				
16330	20	387656	Pinion, Thrust Bearing				
21645	21	327656	Pinion, Thrust Washer				
22624	22	320631	Reverse Gear				
22625	23	320630	Clutch Dog				
21135	24	313448	Pin, Clutch Dog				
11052	25	324369	Spring, Clutch Dog				
22420	26	307551	Drain Plug				
N/A	27	311598	Drain Plug Nylon Washer				
82130	28	320140	O-ring, Shift				
82400	29	305123	O-ring Prop Shaft Carrier				
N/A	30	386319	Forward Gear Bearing Assembly				
22490	31	316506	Detent Ball				
N/A	32	318139	Cover Screw				
N/A	33	387384	Cover & Seal Assembly				
45200	34	318372	O-ring, Shift Rod				
N/A	35	314742	Shim .002				
23510	36	314745	Shim .005				
22415	37	387130	Prop Shaft				
22220	38	333592	Prop Thrust Bushing				
22190	39	320570	Prop Nut Spacer				
22180	40	320569	Prop Nut				
22110	41	309955	Prop Nut Cotter Pin				
33730	42	338484	Gasket, Plate				
12580	43	321188	Plate, Impeller				
86660	44	331353	Seal, Plate to Housing				
89680	45	385528	Impeller, W.P.				
89595	46	308928	Impeller Key				
81250	47	321175	O-ring Impeller				
12811	48	338486	Cup				
12395	49	435990	Housing				
85120	50	321453	Seal				
22360	51	302873	Screw, Water Pump				
21673	52	305981	Washer, Screw				



Section 3

Johnson / Evinrude Gearcase Kits

<i>Complete Small Gearcase Assembly Kits - V4 90°</i>	<i>36</i>
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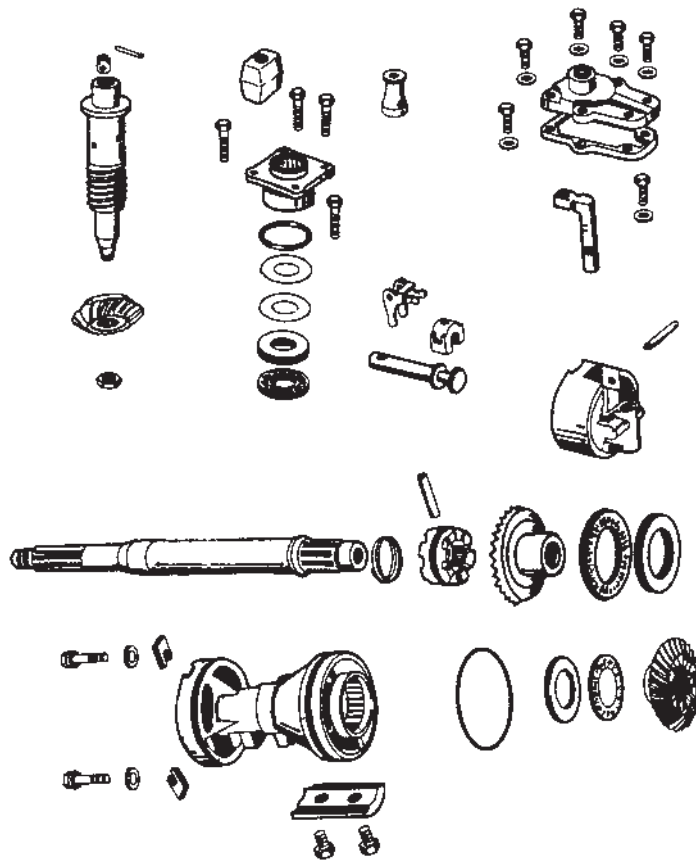
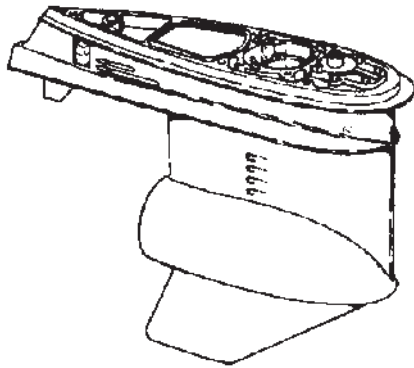
Johnson / Evinrude

COMPLETE SMALL GEARCASE ASSEMBLY KITS - V4 90°

No. 28220

NEW

OEM: N/A

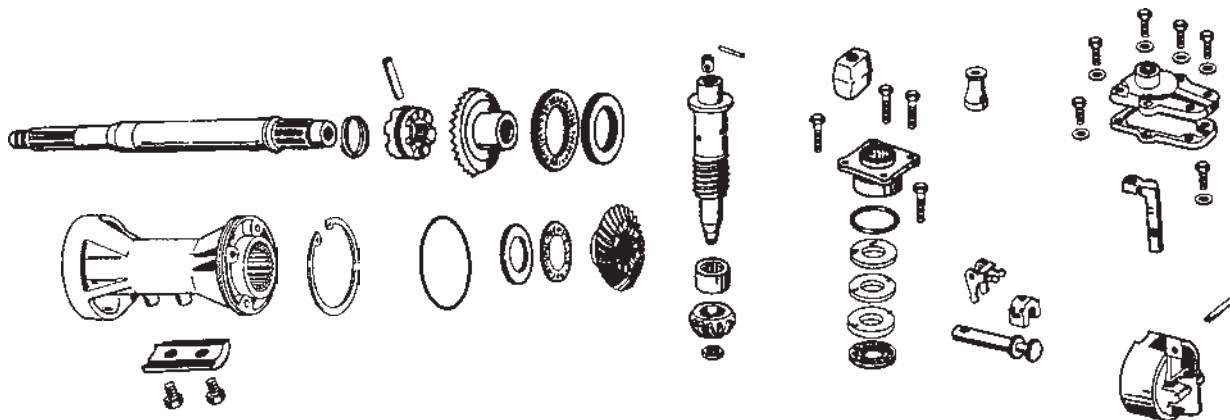


REBUILD KITS - SMALL GEARCASE - V4 90°

No. 28240

NEW

OEM: N/A

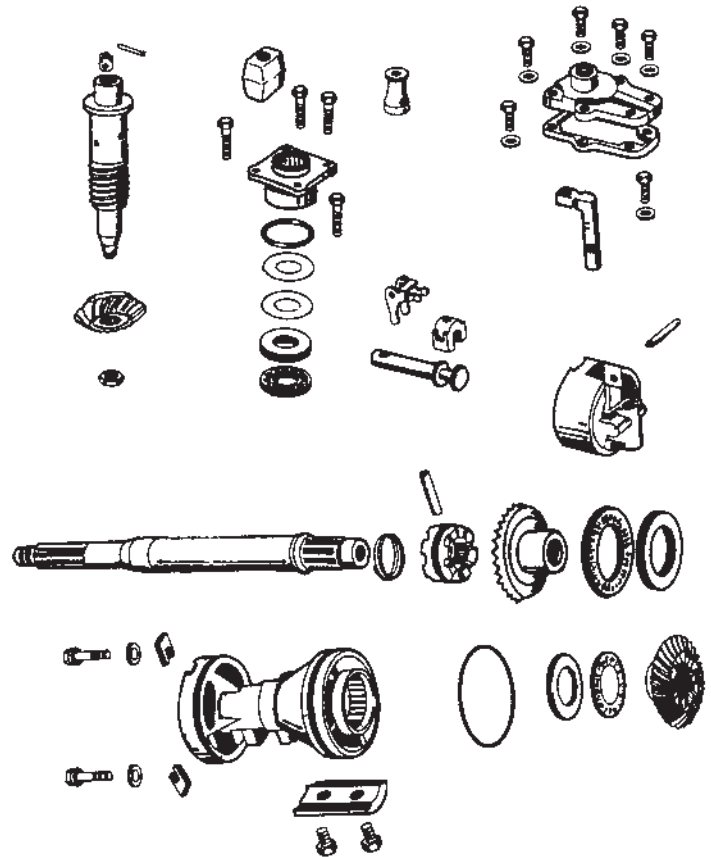
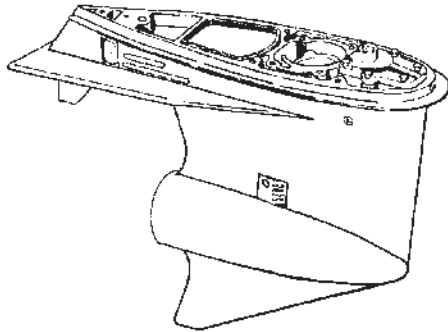


Johnson / Evinrude

COMPLETE SMALL GEARCASE ASSEMBLY KITS - V4 60°

No. 28520

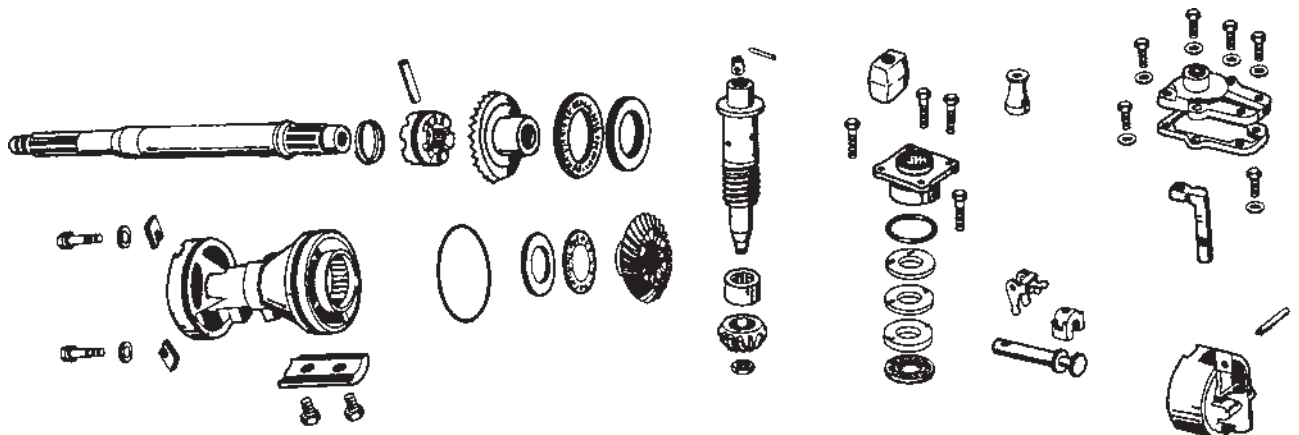
OEM: N/A



REBUILD KITS - SMALL GEARCASE - V4 60°

No. 28540

OEM: N/A



Johnson / Evinrude

COMPLETE GEARCASE ASSEMBLY KITS - V4/V6 "O" TYPE

No. 28720

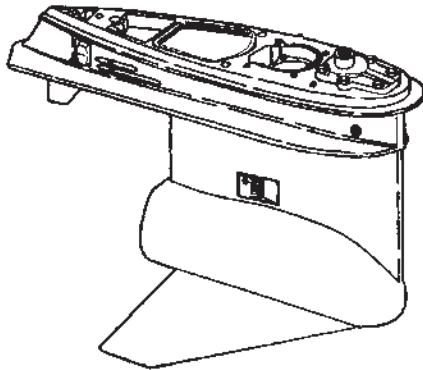
OEM: N/A
0.54 Ratio, Pitot Tube
Speedometer Pick-up
For V6

No. 28840

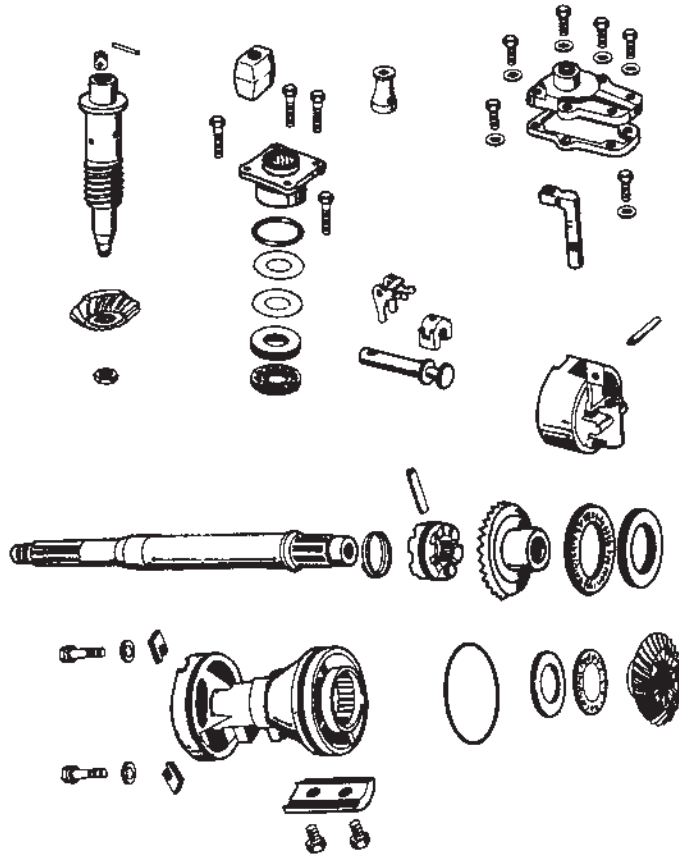
OEM: N/A
0.54 Ratio, No Pitot Tube
Speedometer Pick-up
For V6

No. 28882

OEM: N/A
0.44 Ratio
For V4



All Prop Shafts $\varnothing$ 1-1/4"
V6 comes with GLM No. 22666 HD Gear Set



GEARCASE REBUILD KITS - V4/V6 "O" TYPE

No. 28850

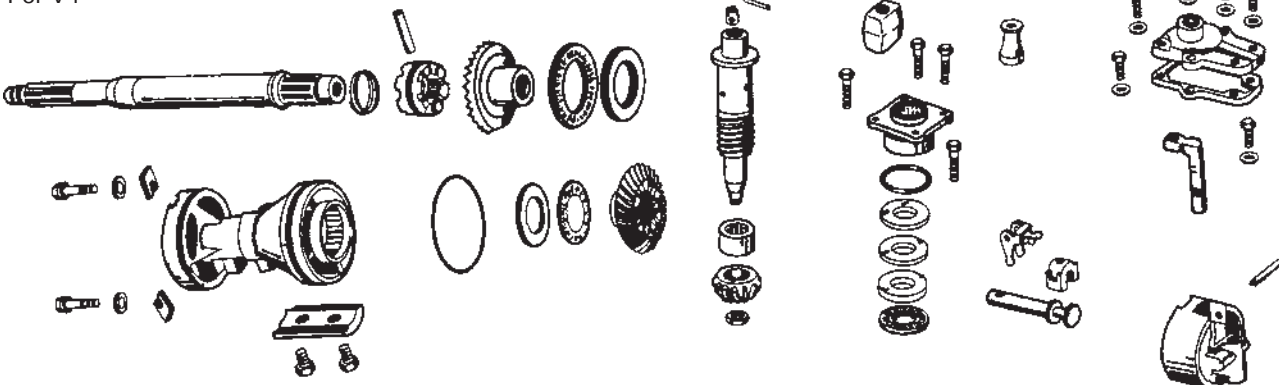
OEM: N/A
0.54 Ratio
For V6

All Prop Shafts $\varnothing$ 1-1/4"
V6 comes with GLM No. 22666 HD Gear Set

Must use with 1991 & Up Gearcase

No. 28885

OEM: N/A
0.44 Ratio
For V4

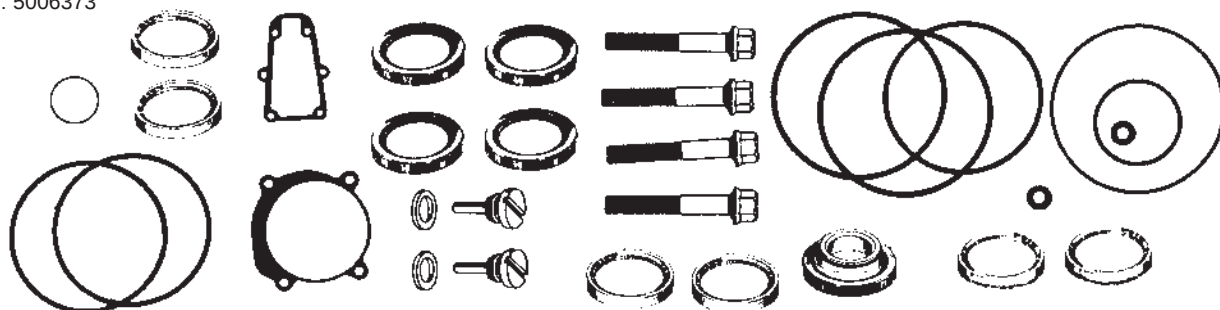


Johnson / Evinrude

GEARCASE SEAL KITS

No. 87600

OEM: 5006373



Fits All V4/V6/V8 (1978-2006) Outboard Engines with a Mechanical Shift Gearcase

GLM No.	Qty.	OEM No.	Description
86030	2	330137	Prop Shaft Seal V4
85130	2	320862	Prop Shaft Seal V4, V6 1-3/16" shaft
86810	2	334950	Prop Shaft Seal V4, V6 1-1/4" shaft
85120	2	321453	Drive Shaft Seal for 1985 & Before
86011	1	341280	Drive Shaft Seal
86240	1	329922	Drive Shaft Seal
86250	1	329923	Drive Shaft Seal
81165	1	310585	Drive Shaft to Crankcase O-ring
82370	1	313446	Prop Shaft Carrier O-ring V4 90° Gearcase
82440	3	326849	Prop Shaft Carrier O-ring V6 60° Gearcase
82400	2	305123	Prop Shaft Carrier O-ring "O"+"M" Type Gearcase
81380	1	314728	Drive Shaft Carrier O-ring
45200	2	318372	Shift Cover O-ring
33020	1	324670	Shift Cover Gasket
33730	1	338484	Water Pump Gasket
21677	1	437330	Pitot Hole Plug Sealing Washer
*22300	4	316563	Prop Shaft Carrier Screw and Seal
21731	2	318544	Drain Plug and Gasket

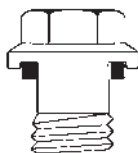
See the Difference!

***GLM's Carrier Screws No. 22300 and No. 22400 come with ND Plastisol™ Treatment**

Their Screws

Q or O-ring screws are difficult to seat properly. They tear and lose integrity with vibration.

Good.



O-ring screws



ND Plastisol™ screws

GLM Screws

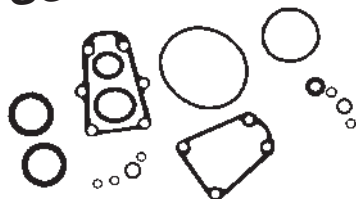
ND Plastisol™ treatment screws provide a positive seal that eliminates leaks. They cushion, insulate, control noise and reduce vibration.

Better!

No. 87612

OEM: N/A

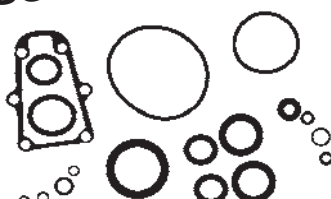
SUP TO No. 87600



No. 87613

OEM: N/A

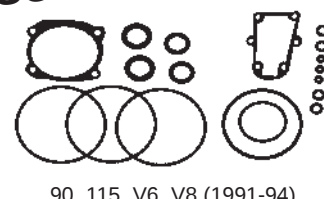
SUP TO No. 87600



No. 87615

OEM: 434516

SUP TO No. 87600



90, 115, V6, V8 (1991-94)
100, 125 Comm., V6, V8 (1991-93)

Johnson / Evinrude

GEARCASE SEAL KITS

Mechanical Shift Thru-Prop Exhaust

No. 87602

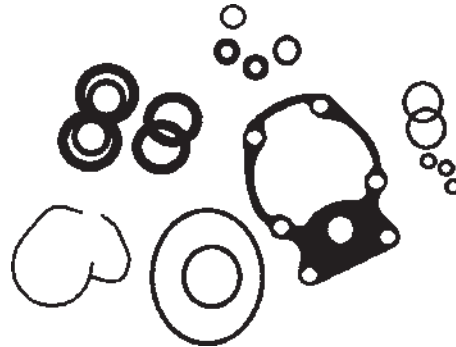
OEM: 396350



9.9, 15 HP (1974-Thru)
9.9, 15 HP 4-Stroke (1974-Thru)

No. 87680

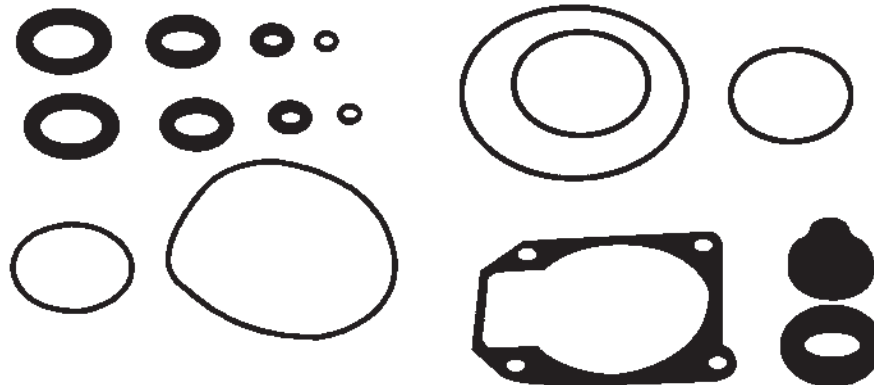
OEM: 396351



2-Cyl. Crossflow 20, 25, 30, 35 HP
Thru-Prop Exhaust

No. 87614

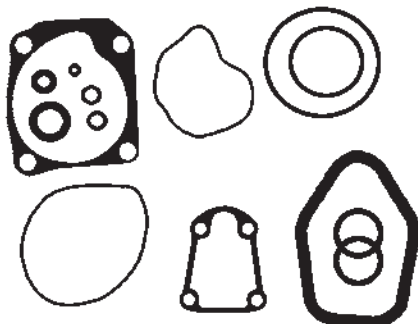
OEM: 433550



Small Housing
40, 48, 50 HP, 2-Cyl. Loopcharged (1989-2005)

No. 87603

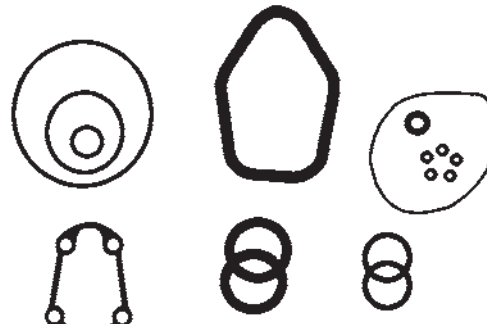
OEM: 396355



Small Housing
2-Cyl. Loopcharged 40-60 (1975-1988)
3-Cyl. Loopcharged 60-75 (1975-1988)

No. 87601

OEM: 5000309



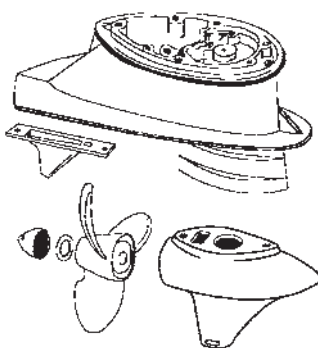
Large Housing
2-Cyl. Loopcharged 40-60 HP (1975-2006)
3-Cyl. Loopcharged 60-75 HP (1975-2001)

Johnson / Evinrude

GEARCASE SEAL KITS

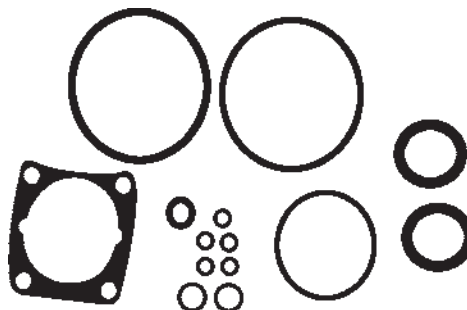
Electric Shift with Cavitation Plate Exhaust

Use GLM Seal Kits
No. 87608, No. 87621
for these electric shift
gearcases.



No. 87608

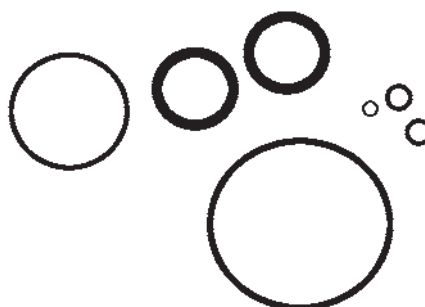
OEM: N/A



V4 Electric Shift
(1962-1968)

No. 87621

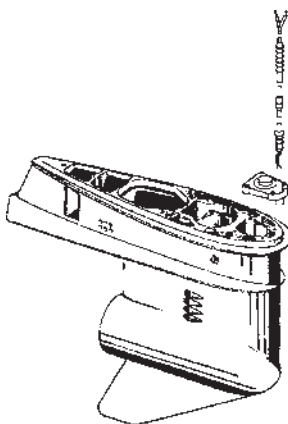
OEM: N/A



40 HP Electric Shift
(1962-1970)

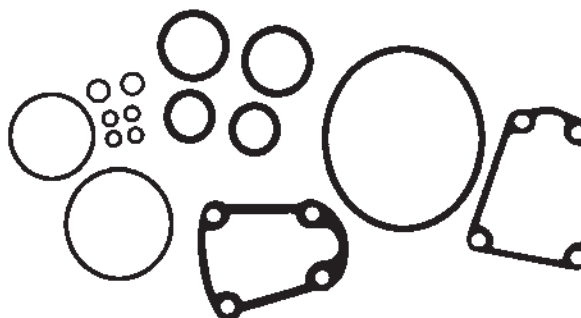
Electric / Hydraulic Shift Thru-Prop-Exhaust

Use GLM Seal Kits
No. 87609, No. 87622,
No. 87611 for these
electric / hydraulic
shift gearcases.



No. 87609

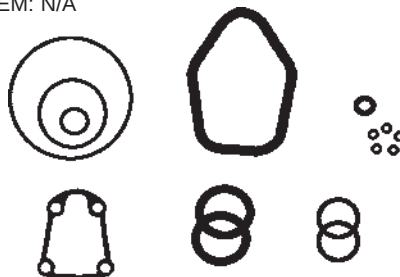
OEM: N/A



3-Cyl., 60 HP Loopcharged
(1970-1971)

No. 87622

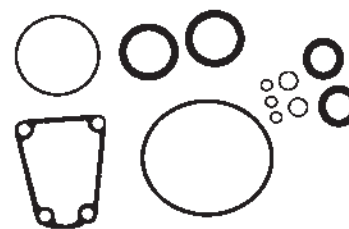
OEM: N/A



2-Cyl. Loopcharged
(1971-1974)

No. 87611

OEM: N/A



55, 100, 125 HP V4 Crossflow
(1971-1972)

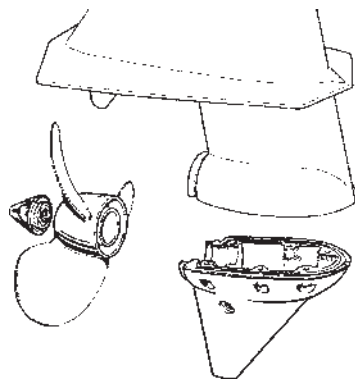
Johnson / Evinrude

GEARCASE SEAL KITS

Two-Piece Gearcase with Cavitation Plate Exhaust

Use GLM Seal Kits

No. 87604, No. 87605, No. 87606
No. 87607, No. 87616, No. 87617
No. 87618, No. 87619, No. 87690
for these two-piece gearcases.



No. 87604

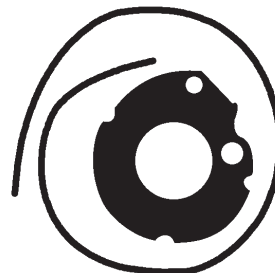
OEM: N/A



5.5, 6 HP
Two-Piece Gearcase Cavitation Plate Exhaust
(1955-1967)

No. 87605

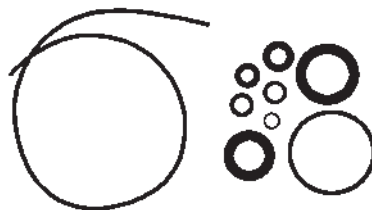
OEM: N/A



10 HP
Two-Piece Gearcase Cavitation Plate Exhaust
(1958-1967)

No. 87606

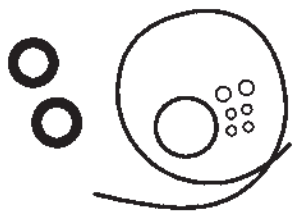
OEM: N/A



18 HP
Two-Piece Gearcase Cavitation Plate Exhaust
(1958-1965)

No. 87607

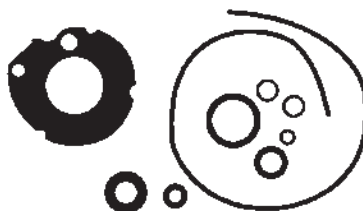
OEM: N/A



25, 28, 30, 33-35, 40 HP, Manual Shift
Two-Piece Gearcase Cavitation Plate Exhaust
(1955-1973)

No. 87616

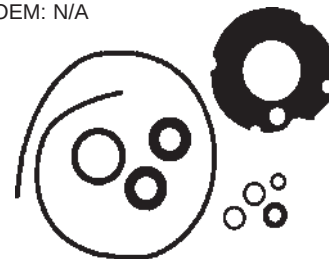
OEM: N/A



6 HP
Two-Piece Gearcase Cavitation Plate Exhaust
(1967-1968)

No. 87617

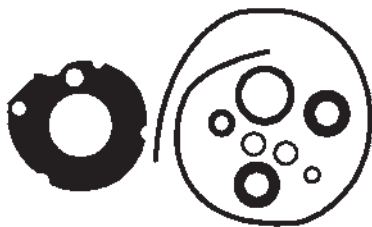
OEM: N/A



6 HP
Two-Piece Gearcase Cavitation Plate Exhaust
(1968-1979)

No. 87618

OEM: N/A



9.5 HP
Two-Piece Gearcase Cavitation Plate Exhaust
(1967-1973)

No. 87619

OEM: N/A



20HP, 25 HP
Two-Piece Gearcase Cavitation Plate Exhaust
(1979-1982)

No. 87690

OEM: 396352



25, 28 HP
Two-Piece Gearcase Cavitation Plate Exhaust
(1985-Up)

Johnson / Evinrude

GEARCASE SEAL KITS APPLICATIONS

Models	Year	Seal Kit	Models	Year	Seal Kit
5.5	1955-67	87604	90 Elect.	1964-65	87608
6	1955-67	87604	90 V4	1973-83	87600
6	1967-68	87616	90	1985-Up	87600
6	1968-79	87617	100 Large Prop Shaft	1971-72	87611
7.5	1955-67	87604	100 V4	1973-83	87600
9.5 B Suffix	1958-67	87605	100 Comm.	1984-95	87600
9.5 M Suffix	1967-73	87618	100	1991-01	87600
9.9/15	1974-Up	87602	110 V4	1973-83	87600
10	1958-67	87605	110	1985-Up	87600
18	1958-65	87606	115 Small Prop Shaft	1969-71	87609
20	1966-73	87606	115 V4	1973-83	87600
20	1981-82	87619	115	1985-Up	87600
20	1985-Up	87680	120	1985-92	87600
25	1955-59	87607	120	1993-Up	87600
25	1969-78	87606	125 Large Prop Shaft	1971-72	87611
25	1979-82	87619	125	1991-98	87600
25	1984	87690	125 Comm.	1991-93	87600
25	1985-Up	87680	135 V4	1973-83	87600
25	1990-95	87614	140 V4	1973-83	87600
25 Comm.	1985-Up	87690	140	1985-94	87600
28	1962-70	87607	150 V6	1978-86	87600
28	1985-Up	87690	150	1991-95	87600
30	1955-59	87607	155 Comm.	1984-93	87600
30	1976-95	87680	175 V6	1977-86	87600
33	1962-70	87607	175	1991-Up	87600
35	1955-59	87607	185	1991-93	87600
35	1977-92	87680	200 V6	1976-86	87600
40 Manual Shift	1960-73	87607	200	1991-Up	87600
40 Elect. Shift	1962-70	87621	V6	1979-92	87600
40	1976-88	87603	225	1991-95	87600
40	1989-Up	87614	235 V6	1977-86	87600
48	1976-88	87603	V8	1985-91	87600
48	1989,92-93	87614	250 V8	1991-95	87600
50	1971-74	87622	300 V8	1991-95	87600
50	1976-88	87603	OMC SEA DRIVE		
50	1989-Up	87614			
55	1968-69	87609	Model	Year	Seal Kit
55	1976-88	87603	1.6 L	1985-90	87600
60 Elect.	1960-68	87608	1.8 L	1987	87600
60	1970-71	87609	2.0 L	1988-90	87600
60 2-Cyl.	1976-88	87603	2.5 L	1984-85	87600
60 3-Cyl.	1978-01	87601	2.6 L	1984-86	87600
65 Elect.	1960-68	87608	2.7 L	1987	87600
65	1978-01	87601	3.0 L	1988-90	87600
70	1978-01	87601	3.6 L	1987	87600
75 Elect.	1960-68	87608	4.0 L	1989-90	87600
75	1978-01	87601			
75 Small Gearcase	1976-88	87603			
V4	1978-84	87600			
85 Elect.	1968	87608			
85 Small Prop Shaft	1969-71	87609			
85 Large Prop Shaft	1971-72	87611			
85 V4	1973-83	87600			
85	1991-95	87600			
88	1985-Up	87600			



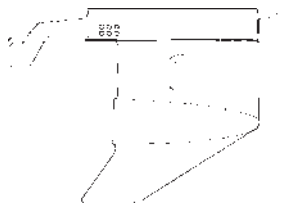
Section 4

Johnson / Evinrude Gears and Clutch Dogs

<i>Lower Gear Housing Gears - 2-Cyl. Loopcharged</i>	<i>46</i>
<i>Lower Gear Housing Gears - 2 & 3 -Cyl. Loopcharged</i>	<i>47-48</i>
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Johnson / Evinrude

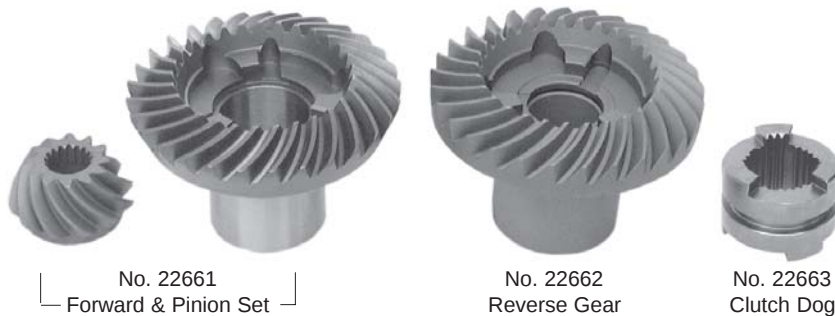
LOWER GEAR HOUSING GEARS - 2-CYLINDER LOOPCHARGED



2-Cylinder Loopcharged 40-50 HP (1989-2005) with Small* Gear Housing - "New" Style

* The 2-Cylinder loopcharged engines were available with a large or small gear housing.

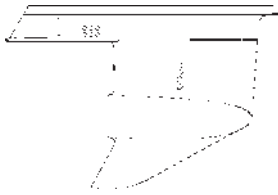
2.42:1 Ratio
.41 Ratio



COMPLETE GEAR SET - Forward/Pinion/Reverse - 12/29 teeth - Comes with the GLM No. 22663 clutch	GLM No. 22660	OEM No. N/A
FORWARD & PINION SET - 12/29 teeth	GLM No. 22661	OEM No. 397627
REVERSE GEAR - 29 teeth	GLM No. 22662	OEM No. 345992
CLUTCH	GLM No. 22663	OEM No. 332491

Johnson / Evinrude

LOWER GEAR HOUSING GEARS - 2 & 3-CYLINDER LOOPCHARGED



2-Cyl. Loopcharged 40-60 HP (1975-1988)
3-Cyl. Loopcharged 60-75 HP (1975-1988)
with Small* Gear Housing - "Old" Style

* The 2-Cylinder and 3-Cylinder loopcharged engines were available with a large or small gear housing.

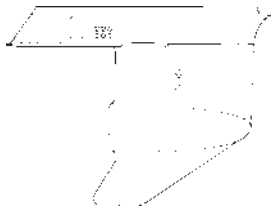
2.42:1 Ratio
 .41 Ratio



COMPLETE GEAR SET - Forward/Pinion/Reverse - 12/29 teeth - Comes with the GLM No. 22683 clutch	GLM No. 22680	OEM No. N/A
FORWARD & PINION SET with REVERSE GEAR - 12/29 teeth	GLM No. 22681	OEM No. 433570
CLUTCH	GLM No. 22683	OEM No. 319895

Johnson / Evinrude

LOWER GEAR HOUSING GEARS - 2 & 3-CYLINDER LOOPCHARGED



2-Cyl. Loopcharged 40-60 HP (1986-2006) 3-Cyl. Loopcharged 60-75 HP (1975-2001) with the Large* Gear Housing

* The 2-Cylinder and 3-Cylinder loopcharged engines were available with a large or small gear housing.

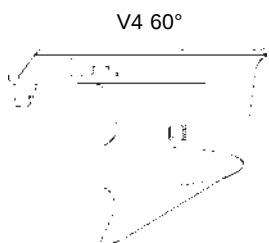
2.42:1 Ratio
.41 Ratio



COMPLETE GEAR SET - Forward/Pinion/Reverse - 12/29 teeth - Comes with the GLM No. 22673 clutch	GLM No. 22670	OEM No. N/A
FORWARD & PINION SET - 12/29 teeth	GLM No. 22671	OEM No. 397338
REVERSE GEAR - 29 teeth	GLM No. 22672	OEM No. 318304
CLUTCH	GLM No. 22673	OEM No. 318303

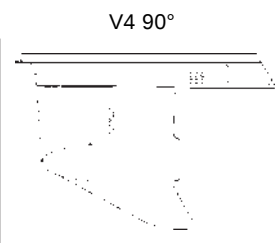
Johnson / Evinrude

LOWER GEAR HOUSING GEARS - V4 60° & V4 90°



V4 60°

V4 60° & V4 90° Replacement Gears for the Small* Gear Housing

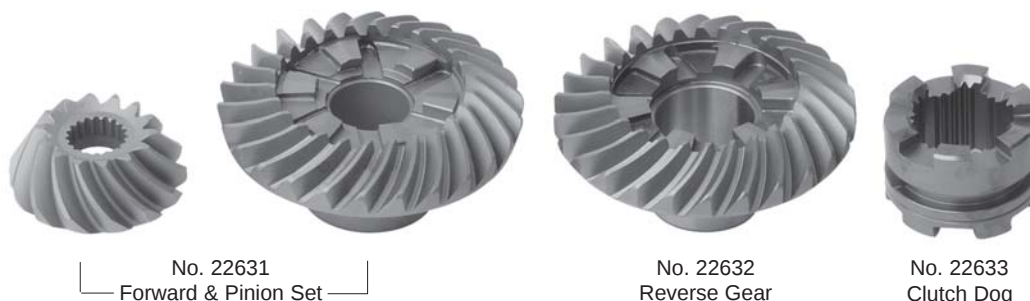


V4 90°

These gear sets are an exact copy of the gears used in the 1978-2006 V4 Johnson / Evinrude Outboards with the small gear housing.

* The V4 engines were available with a large or small gear housing.

2:1 Ratio
.50 Ratio



COMPLETE GEAR SET

- Forward/Pinion/Reverse
- 13/26 teeth
- Comes with the GLM No. 22633 clutch

GLM No. 22630

OEM No. N/A

FORWARD & PINION SET

- May be used with OMC reverse gear
- 13/26 teeth

GLM No. 22631

OEM No. 436746

REVERSE GEAR

- May be used with OMC forward and pinion gears
- 26 teeth

GLM No. 22632

OEM No. 345992

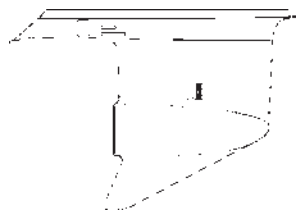
CLUTCH

GLM No. 22633

OEM No. 323664

Johnson / Evinrude

LOWER GEAR HOUSING GEARS - V4 90° "O" TYPE



V4 90° Replacement Gears for the Large* "O" Type Gear Housing

These gear sets are an exact copy of the gears used in the 1978-2006 V4 Johnson / Evinrude Outboards with the large "O" type gear housing.

* The V4 engines were available with a large or small gear housing.

2.25:1 Ratio
.44 Ratio



No. 22651
Forward & Pinion Set



No. 22653
Reverse Gear

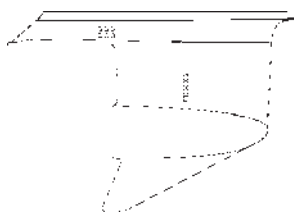


No. 22625
Clutch Dog

COMPLETE GEAR SET - Forward/Pinion/Reverse - 12/27 teeth - Comes with the GLM No. 22625 clutch	GLM No. 22650	OEM No. N/A
FORWARD & PINION SET - 12/27 teeth	GLM No. 22651	OEM No. 435123
REVERSE GEAR - 27 teeth	GLM No. 22653	OEM No. 336574
CLUTCH	GLM No. 22625	OEM No. 337774 OEM No. 914716

Johnson / Evinrude

LOWER GEAR HOUSING GEARS - V6 MECHANICAL/HYDRAULIC SHIFT



V6 Mechanical/Hydraulic Shift 200 HP (1976) 175, 200 HP (1977) 150, 175, 200, 235 HP (1978)

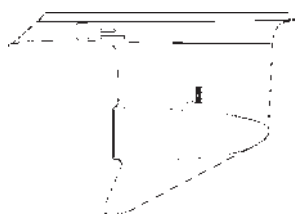
These gear sets are an exact copy of the gears used in the first V6 Johnson / Evinrude Outboards gear housings.
Forward gear drives a hydraulic pump.



COMPLETE GEAR SET - Forward/Pinion/Reverse - 14/26 teeth - Comes with the GLM No. 22625 clutch	GLM No. 22620	OEM No. N/A
FORWARD & PINION SET - 14/26 teeth	GLM No. 22621	OEM No. 5004941
REVERSE GEAR & CLUTCH - 26 teeth	GLM No. 22652	OEM No. 437297
CLUTCH	GLM No. 22625	OEM No. 337774 OEM No. 914716 OEM No. 915272

Johnson / Evinrude

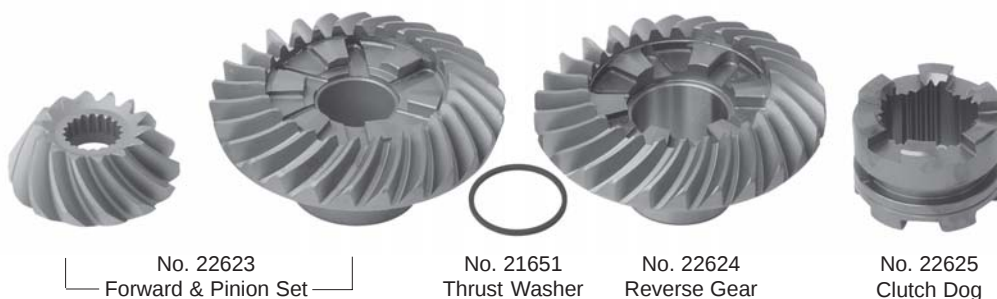
LOWER GEAR HOUSING GEARS - V6 90° "O" TYPE



V6 90° Replacement Gears for the "O" Type Gear Housing

These gear sets are an exact copy of the gears used in the 1978-2006 V6 Johnson / Evinrude Outboards with the large "O" type gear housing.

1.86:1 Ratio
.54 Ratio

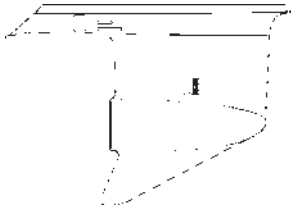


COMPLETE GEAR SET - Forward/Pinion/Reverse - 14/26 teeth - Comes with the GLM No. 22625 clutch	GLM No. 22622	OEM No. 5004218
FORWARD & PINION SET - May be used with OMC reverse gear - 14/26 teeth	GLM No. 22623	OEM No. 435020 OEM No. 5004216 OEM No. 5004938
REVERSE GEAR - May be used with OMC forward and pinion gears - 26 teeth - Includes thrust washer No. 21651*	GLM No. 22624	OEM No. 336561 OEM No. 910994
CLUTCH	GLM No. 22625	OEM No. 337774

* For model year 1991 Johnson / Evinrude increased the prop shaft diameter at the carrier needle bearing (not the prop splines) from 1-3/16" to 1-1/4". Some older gearcases may be fitted with the new large diameter prop shaft. The large diameter prop shaft utilizes a thrust washer (included with this gear set) between the prop shaft and reverse gear. Discard the thrust washer when using the small diameter prop shaft.

Johnson / Evinrude

LOWER GEAR HOUSING GEARS - V6 90° HEAVY DUTY



V6 90° HEAVY DUTY Replacement Gears for the “O” Type Gear Housing

When all three gears need to be replaced in your V6 Johnson / Evinrude Outboard the installation of the new GLM No. 22666 heavy-duty gear set is highly recommended. The heavy-duty gear sets can be used with all V6 outboards from 1979-2006 with the “O” type gear housings. It is recommended that the new clutch GLM No. 22625 also be installed with the heavy-duty gears.



Gear Set GLM No. 22666

IMPORTANT NOTE:

The new heavy-duty GLM No. 22666 gears will not interchange with the standard gears. For individual gear replacement, you must use the standard duty GLM No. 22623 pinion and forward gears or the GLM No. 22624 reverse gear.

✓ **STRONGER**

OEM gear sets are machined from 8620 forged steel. The GLM gear set is machined from a higher alloy forged steel. The stronger teeth and higher alloy steel results in a gear that is 50% stronger than any other comparable gear set. These durable gears are capable of operating with up to 300 horsepower.

✓ **MORE DURABLE**

The new GLM gear set has fewer, larger, and stronger teeth. The pinion gear has 12 teeth and the forward and reverse gears have 22 teeth. The original OEM gear set has 14 teeth on the pinion and 26 teeth on the forward and reverse gears.

✓ **QUIETER**

During the gear machining process, an additional pass is made over each tooth for a finer surface. This makes the gear operation especially quiet.

Johnson / Evinrude

GEAR SET APPLICATIONS 2 & 3-CYL. & V4

HP	Year	Complete Gear Set w/ Clutch	Forward & Pinion	Reverse Gear	Clutch
2 & 3-Cyl. Loopcharged					
25D Small Gearcase	1989-95	22660	22661	22662	22663
35 (AR, AE & AT Only) Small Gearcase	1987	22680	22681	22681	22683
40 Small Gearcase	1984-88	22680	22681	22681	22683
40 Small Gearcase	1989-97	22660	22661	22662	22663
48 Small Gearcase	1987-88	22680	22681	22681	22683
48 Small Gearcase	1989-96	22660	22661	22662	22663
50 Small Gearcase	1979-88	22680	22681	22681	22683
50 Small Gearcase	1989-97	22660	22661	22662	22663
50 (S CYD Model) Large Gearcase	1995-97	22670	22671	22672	22673
55 Electric Start Small Gearcase	1979-81	22680	22681	22681	22683
60 Electric Start Small Gearcase	1980-85	22680	22681	22682	22683
60 (3-Cyl. 20" Model) Large Gearcase	1986-97	22670	22671	22672	22673
65 Comm. Large Gearcase	1984-97	22670	22671	22672	22673
70 E Model Large Gearcase	1975	22670	22671	22672	22673
70 20" Model Large Gearcase	1976-97	22670	22671	22672	22673
75 20" Model Large Gearcase	1975-88	22670	22671	22672	22673
V4					
85	1977	-	-	22632	22633
85	1978-80, 1991-95	22630	22631	22632	22633
88	1987-96	22630	22631	22632	22633
90	1981-97	22630	22631	22632	22633
90 V4 60° 2.25:1 "O" Gearcase	1995-99	22650	22651	22653	22625
100	1979-80	22630	22631	22632	22633
100	1989-90	22630	22631	22632	22633
100 2.25:1 "O" Gearcase	1991	22650	22651	22653	22625
100 Comm. (S Prefix Only)	1989-90	22630	22631	22632	22633
100 Comm. 2.25:1 "O" Gearcase	1987, 92, 93	22650	22651	22653	22625
100 Comm. D 2.25:1 "O" Gearcase	1994-99	22650	22651	22653	22615
100 Comm. (E J Models) 2.25:1 "O" Gearcase	1989	22650	22651	22653	22625
100 Comm. (2 Pcs. D/Shaft) 2.25:1 "O" Gearcase	1990	22650	22651	22653	22625
110	1986-89	22630	22631	22632	22633
112	1994-96	22630	22631	22632	22633
115	1977	22630	22631	22632	22633
115	1990-97	22630	22631	22632	22633
115 V4 60° 2.25:1 "O" Gearcase	1995-99	22650	22651	22653	22625
120	1986-92	22630	22631	22632	22633
120 2.25:1 "O" Gearcase	1990	22650	22651	22653	22625
120 TL, TX	1993	22630	22631	22632	22633
120 TX 2.25:1 "O" Gearcase	1993	22650	22651	22653	22625
125 Comm. (ESX Prefix Only)	1989-90	22630	22631	22632	22633
125 Comm. 2.25:1 "O" Gearcase	1989-92	22650	22651	22653	22625
125 Comm. E, R 2.25:1 "O" Gearcase	1993-96	22650	22651	22653	22625
125 ESX (F Suffix) 2.25:1 "O" Gearcase	1993	22650	22651	22653	22625
125 ESX (S Suffix Only)	1993	22630	22631	22632	22633
130 2.25:1 "O" Gearcase	1997	22650	22651	22653	22625
140	1978-84	22630	22631	22632	22633
140	1986-87	22630	22631	22632	22633
140 TL	1988-94	22630	22631	22632	22633
140 TX 2.25:1 "O" Gearcase	1988-90, 92, 93	22650	22651	22653	22625



Johnson / Evinrude

GEAR SET APPLICATIONS V6					
HP	Year	Complete Gear Set w/ Clutch	Forward & Pinion	Reverse Gear	Clutch
V6					
150 Mechanical/Hydraulic Shift	1978	22620	22621	22652	22625
150	1979-87	22622	22623	22624	22625
150	1979-87	-	22666 Heavy Duty Gears		22625
150	1988-90	22622	22623	22624	22625
150	1988-90	-	22666 Heavy Duty Gears		22625
150	1991-97	22622	22623	22624	22625
150	1991-97	-	22666 Heavy Duty Gears		22625
150 Comm.	1993-95	22622	22623	22624	22625
150 Comm.	1993-95	-	22666 Heavy Duty Gears		22625
150 Comm.	1989-90	22622	22623	22624	22625
150 Comm.	1989-90	-	22666 Heavy Duty Gears		22625
155 Comm. WTA	1989	22650	22651	22653	22625
155 Comm. WTP	1989	22622	22633	22624	22625
155 Comm. WTP	1989	-	22666 Heavy Duty Gears		22625
175 Mechanical/Hydraulic Shift	1977-78	22620	22621	22652	22625
175	1979-87	22622	22623	22624	22625
175	1979-87	-	22666 Heavy Duty Gears		22625
175	1988-90	22622	22633	22624	22625
175	1988-90	-	22666 Heavy Duty Gears		22625
175	1991-97	22622	22623	22624	22625
175	1991-97	-	22666 Heavy Duty Gears		22625
185	1984-85	22622	22623	22624	22625
185	1984-85	-	22666 Heavy Duty Gears		22625
185	1990	22622	22623	22624	22625
185	1990	-	22666 Heavy Duty Gears		22625
185	1991-94	22622	22623	22624	22625
185	1991-94	-	22666 Heavy Duty Gears		22625
200 Mechanical/Hydraulic Shift	1976-78	22620	22621	22652	22625
200	1979-83	22622	22623	22624	22625
200	1979-83	-	22666 Heavy Duty Gears		22625
200	1986-87	22622	22633	22624	22625
200	1986-87	-	22666 Heavy Duty Gears		22625
200	1988-90	22622	22623	22624	22625
200	1988-90	-	22666 Heavy Duty Gears		22625
200	1991-97	22622	22623	22624	22625
200	1991-97	-	22666 Heavy Duty Gears		22625
200 Comm.	1990-91	22622	22623	22624	22625
200 Comm.	1990-91	-	22666 Heavy Duty Gears		22625
225	1986-87	22622	22623	22624	22625
225	1986-87	-	22666 Heavy Duty Gears		22625
225	1988-90	22622	22623	22624	22625
225	1988-90	-	22666 Heavy Duty Gears		22625
225	1991-97	22622	22623	22624	22625
225	1991-97	-	22666 Heavy Duty Gears		22625
235 Mechanical/Hydraulic Shift	1978	22620	22621	22652	22625
235	1979-85	22622	22623	22624	22625
235	1979-85	-	22666 Heavy Duty Gears		22625
1.6L Comm.	1988	22650	22651	22653	22625



Section 5

Johnson / Evinrude Gearcase Shift Components

<i>Shift Components - 2-Cyl. Loopcharged (1989-2005) - Small Gearcase</i>	<i>58</i>
<i>Shift Components - 2 & 3-Cyl. Loopcharged (1975-1988) - Small Gearcase</i>	<i>58</i>
<i>Shift Components - 2 & 3-Cyl. Loopcharged (1975-2006) - Large Gearcase</i>	<i>59</i>
<i>Shift Components - V4 60° & V4 90° Loopcharged - Small Gearcase</i>	<i>59</i>
<i>Shift Components - V4/V6/V8 "O" Type - Large Gearcase</i>	<i>60</i>
<i>Shift Components - V4/V6/V8 "M" Type - Large Gearcase</i>	<i>60</i>
<i>Gearcase Shift Components</i>	<i>61</i>

Johnson / Evinrude

SHIFT COMPONENTS - 2-CYL. LOOPCHARGED (1989-2005)

Small Gearcase "New"

No. 11051 No. 21133

SPRING
OEM: 320311

CROSS PIN
OEM: 320310



No. 22663 No. N/A

CLUTCH DOG
OEM: 332491

SPRING
OEM: 332484



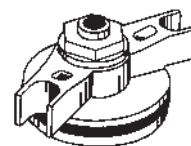
No. N/A

SHAFT
OEM: 332503



No. 27940

CVR. & SEAL ASSY.
OEM: 434588



No. 22490

DETENT BALLS
OEM: 316506



No. 82230

O-RING
OEM: 913921



SHIFT COMPONENTS - 2 & 3-CYL. LOOPCHARGED (1975-1988)

Small Gearcase "Old"

No. 11051 No. 21133

SPRING
OEM: 320311

CROSS PIN
OEM: 320310



No. 22683 No. N/A

CLUTCH DOG
OEM: 319895

SHAFT
OEM: 320172

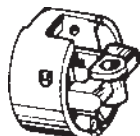


No. 27756

CVR. & SEAL ASSY.
OEM: 387336



No. 27704
HSG. & BEARING ASSY.
OEM: 389637



No. 21105
PIN
OEM: 320145



No. 27742
LEVER
OEM: 320120



No. 27723
DETENT
OEM: 322636



No. 33420
OEM: 314082



No. 21138
PIN
OEM: 331880



No. 27730
CRADLE
OEM: 334163



No. 22493
DETENT BALL
OEM: 327345



No. 11039
SPRING
OEM: 312870



Johnson / Evinrude

SHIFT COMPONENTS - 2 & 3-CYL. LOOPCHARGED (1975-2006)

Large Gearcase

No. 11052

SPRING

OEM: 324369



No. 21135

CROSS PIN

OEM: 313448



No. 22673

CLUTCH DOG

OEM: 318303



No. 27711

SHAFT

OEM: 326668



No. 27754

CVR. & SEAL ASSY.

OEM: 388651

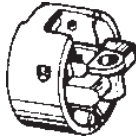


No. 27702

HSG. & BEARING
ASSY.

OEM: 391365

Includes Bearing
No. 22870



No. 21105

PIN

OEM: 320145



No. 27741

LEVER

OEM: 324037



No. 27722

DETENT

OEM: 326670



No. 33420

SEAL

OEM: 314082



No. 21138

PIN

OEM: 331880



No. 27730

CRADLE

OEM: 334163



No. 22493

DETENT BALL

OEM: 327345



No. 11039

SPRING

OEM: 911961

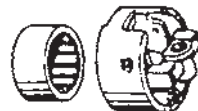
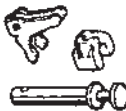


No. 28484

SHAFT & BEARING

HSG. KIT

OEM: N/A



SHIFT COMPONENTS - V4 60° & V4 90° LOOPCHARGED

Small Gearcase

No. 11052

SPRING

OEM: 324369



No. 21135

CROSS PIN

OEM: 313448



No. 22633

CLUTCH DOG

OEM: 912607



No. 27710

SHAFT

OEM: 322941



No. 27752

CVR. & SEAL ASSY.

OEM: 5006241



No. 27702

HSG. & BEARING
ASSY.

OEM: 391365

Includes Bearing
No. 22870



No. 21105

PIN

OEM: 320145



No. 27741

LEVER

OEM: 324037



No. 27720

DETENT

OEM: 915954



No. 33020

SEAL

OEM: 324670

OEM: 352165



No. 21138

PIN

OEM: 331880



No. 27730

CRADLE

OEM: 334163



No. 22493

DETENT BALL

OEM: 327345



No. 11039

SPRING

OEM: 911961

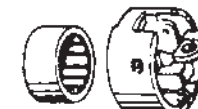


No. 28482

SHAFT & BEARING

HSG. KIT

OEM: N/A



Johnson / Evinrude

SHIFT COMPONENTS - V4/V6/V8 "O" TYPE

Large Gearcase

No. 11052 No. 21135

SPRING
OEM: 324369

CROSS PIN
OEM: 313448



No. 22625 No. 27710

CLUTCH DOG
OEM: 337774

SHAFT
OEM: 322941



No. 27752

CVR. & SEAL ASSY.
OEM: 5006241



No. 27700

HSG. & BEARING ASSY.
OEM: 389455

Includes No. 22910
Bearing



No. 21137

PIN
OEM: 328825



No. 27740

LEVER
OEM: 322938



No. 27720

DETENT
OEM: 915954



No. 33020

SEAL
OEM: 324670
OEM: 352165



No. 21138

PIN
OEM: 331880



No. 27730

CRADLE
OEM: 982422



No. 22491

DETENT BALL
OEM: 160084



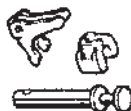
No. 11055

SPRING
OEM: 911962



No. 28481

SHAFT & BEARING
HSG. KIT
OEM: N/A



SHIFT COMPONENTS - V4/V6/V8 "M" TYPE

Large Gearcase

No. 11052 No. 21135

SPRING
OEM: 324369

CROSS PIN
OEM: 313448



No. 22625 No. N/A

CLUTCH DOG
OEM: 337774

SHAFT
OEM: 348483



No. 27752

CVR. & SEAL ASSY.
OEM: 5006241



No. N/A

HSG. & BEARING ASSY.
OEM: 5001601



No. N/A

PIN
OEM: 317274



No. 27740

LEVER
OEM: 322938



No. N/A

DETENT
OEM: 347377



No. 33020

SEAL
OEM: 324670
OEM: 352165



No. 21138

PIN
OEM: 331880



No. 27730

CRADLE
OEM: 334163



No. 22491

DETENT BALL
OEM: 160084



No. 11055

SPRING
OEM: 911962



Johnson / Evinrude

GEARCASE SHIFT COMPONENTS

Gearcase Gaskets

No. 34120

SHIFT ROD
OEM: 304764



No. 33200

SHIFT ROD
OEM: 305512



No. 34410

SHIFT ROD WASHER
OEM: 321738



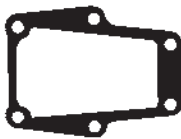
No. 33220

SHIFT ROD COVER
OEM: 304023



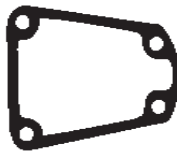
No. 33980

SHIFT COVER
OEM: 912388



No. 33450

V4 SOLENOID COVER
OEM: 314876



No. 33511

LOWER GEARCASE
OEM: 324449



No. 33550

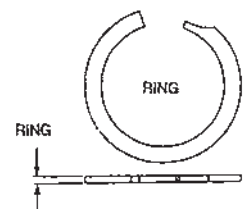
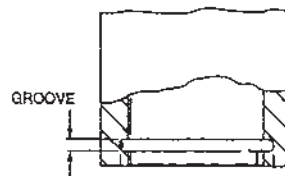
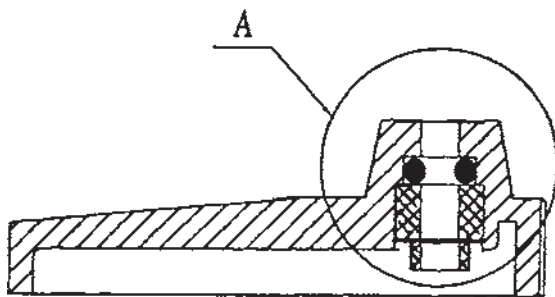
LOWER GEARCASE
OEM: 307099



GLM'S RE-DESIGN OF THE COVER & SEAL ASSEMBLY

GLM proudly uses Smalley* internal snap ring for holding the sealing bushing unlike the OEMs which locks it dead. No special tools are required for replacing the seal and a service job can be finished in seconds!

*Smalley Steel Ring Co. is a GM vender



Side A View



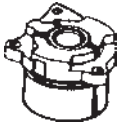
Section 6

Johnson / Evinrude Drive Shaft and Propeller Shaft Components

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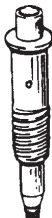
Johnson / Evinrude

DRIVE SHAFT COMPONENTS - 2 & 3-CYL. LOOPCHARGED

Small "Old" Style	Small "New" Style	Large Gearcase
Small Gearcase 40-60 HP 2-Cyl. Loopcharged (1975-1988) 60-75 HP 3-Cyl. Loopcharged (1975-1988)	Small Gearcase 40-50 HP 2-Cyl. Loopcharged (1989-2006)	Large Gearcase 40-60 HP 2-Cyl. Loopcharged (1986-2006) 60-75 HP 3-Cyl. Loopcharged (1975-2001)
No. 86013 OIL SEAL - 1 PC. OEM: 342786 	No. 86013 OIL SEAL, D.S. OEM: 342786 	No. 86460 OIL SEAL - TOP OEM: 332205 No. 86160 OIL SEAL - BOTTOM OEM: 321466  
No. 22327 SCREW OEM: 909386 	No. 11422 BEARING, D.S. OEM: 398874 	No. 86013 OIL SEAL, D.S. OEM: 342786 
No. 22728 BEARING HSG. ASSY. OEM: 387067 	No. 22362 SCREW OEM: 317624 	No. 22327 SCREW OEM: 909386 
No. 82240 O-RING OEM: 302588 	No. 27790 BEARING HSG. ASSY. OEM: 435274 	No. 22722 BEARING HSG. ASSY. OEM: 385087 No. 22726 BEARING HSG. ASSY. OEM: 435519 
No. 23530 SHIM 0.003" OEM: 320166 	No. 82250 O-RING OEM: 310324 	No. 81340 O-RING OEM: 313754 
No. 23540 SHIM 0.004" OEM: 320167 	No. 21649 THRUST WASHER OEM: 333771 	No. 23600 SHIM 0.003" OEM: 323889 No. 23610 SHIM 0.004" OEM: 323890 No. 23620 SHIM 0.005" OEM: 317232 
No. 23550 SHIM 0.005" OEM: 320168 	No. 16370 THRUST BEARING OEM: 398901 	No. 21643 THRUST WASHER OEM: 317230 
No. 21511 DRIVE SHAFT BEARING OEM: 385175 	No. 21649 THRUST WASHER OEM: 333771 	No. 16320 THRUST BEARING OEM: 385068 
No. 11423 PINION BEARING OEM: 386766 	No. 11430 PINION BEARING OEM: 382343 	No. 11430 PINION BEARING OEM: 382343 
See Section 4 for Gear Sets 	See Section 4 for Gear Sets 	See Section 4 for Gear Sets 
No. 11192 PINION NUT OEM: 313339 	No. 11192 PINION NUT OEM: 313339 	No. 11192 PINION NUT OEM: 313339 

Johnson / Evinrude

DRIVE SHAFT COMPONENTS - V4 & V6

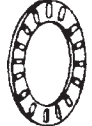
V4 60° & V4 90°				V4 & V6 "O" & "M" Type			
Small Gearcase V4 60° (1995-2006) V4 90° (1978-1998)				Large Gearcase "O" Type (1978-2006) "M" Type (2002-2006)			
No. 86011 OIL SEAL OEM: 341280			No. 22405 LOWER D.S.-V4 60° OEM: 346004	No. 86011 OIL SEAL OEM: 341280			No. 22407 LOWER D.S. "O" TYPE OEM: 345905
No. 22362 SCREW OEM: 317624			No. 22409 LOWER D.S. - V4 90° OEM: 346006	No. 22362 SCREW OEM: 317624			No. 22403 LOWER D.S. "M" TYPE OEM: 347371
No. 22720 BEARING HSG. & SEAL OEM: 439476			No. 22409 LOWER D.S. - V4 90° OEM: 346006	No. 22720 BEARING HSG. & SEAL OEM: 439476			No. 22403 LOWER D.S. "M" TYPE OEM: 347371
No. 81380 O-RING, LOWER OEM: 314728			No. 81380 O-RING, LOWER OEM: 314728	No. 81380 O-RING, LOWER OEM: 314728			No. 22403 LOWER D.S. "M" TYPE OEM: 347371
No. 23590 SHIM 0.003" OEM: 323362			No. 22880 PINION BEARING OEM: 384195	No. 23590 SHIM 0.003" OEM: 323362			No. 21610 PINION BEARING OEM: 387817
No. 23580 SHIM 0.004" OEM: 323361			See Section 4 for Gear Sets	No. 23580 SHIM 0.004" OEM: 323361			See Section 4 for Gear Sets
No. 23510 SHIM 0.005" OEM: 314745				No. 23510 SHIM 0.005" OEM: 314745			No. 32800 WASHER "M" TYPE OEM: 350038
No. 21645 THRUST WASHER OEM: 327656			No. 11190 PINION NUT OEM: 314730	No. 21645 THRUST WASHER OEM: 327656			No. 11190 PINION NUT OEM: 314730
No. 16330 THRUST BEARING OEM: 387656				No. 16330 THRUST BEARING OEM: 387656			
No. 28351 RETAINER OEM: 338504				No. 28351 RETAINER OEM: 338504			
No. 21139 PIN OEM: 311538				No. 21139 PIN OEM: 311538			

Johnson / Evinrude

PROP SHAFT COMPONENTS - 2-CYL. LOOPCHARGED (1989-2006)

40-50 HP Small Gearcase

No. 22900 PROP SHAFT BEARING OEM: 386765	No. 22890 REVERSE GEAR BEARING OEM: 386764	No. 21647 THRUST WASHER REVERSE GEAR OEM: 332514	No. 16350 THRUST BEARING REVERSE GEAR OEM: 397537	No. 16360 THRUST BEARING FORWARD GEAR OEM: 397538	No. 21648 THRUST WASHER FORWARD GEAR OEM: 333725	No. 22870 FORWARD GEAR BEARING OEM: 382407	No. 22940 FORWARD GEAR BEARING OEM: 432264
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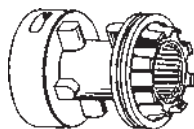
See Section
4 for Gears



No. 86060
PROP SHAFT SEAL
OEM: 321467



No. 11416
BEARING CARRIER
W/ BEARINGS & SEALS
OEM: 432276



No. 82360
O-RING FOR
BEARING CARRIER
OEM: 553126



No. 22421
PROP SHAFT
OEM: 439138



PROP SHAFT COMPONENTS - 2 & 3-CYL. LOOPCHARGED (1975-1988)

Small Gearcase

No. 22900 PROP SHAFT BEARING OEM: 386765	No. 22890 REVERSE GEAR BEARING OEM: 386764	No. N/A THRUST WASHER REVERSE GEAR OEM: 320115	No. N/A THRUST BEARING REVERSE GEAR OEM: 386719	See Section 4 for Gears	No. N/A THRUST BEARING FORWARD GEAR OEM: 389297	No. N/A THRUST WASHER FORWARD GEAR OEM: 323845	No. N/A FORWARD GEAR BEARING OEM: N/A
--	--	--	---	----------------------------	---	--	---



No. 86060
PROP SHAFT SEAL
OEM: 321467



No. N/A
BEARING CARRIER
OEM: 386920



No. 82320
O-RING FOR
BEARING CARRIER
OEM: 320303



No. N/A
PROP SHAFT
OEM: 386659



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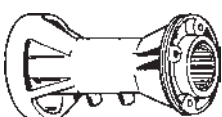
PROP SHAFT COMPONENTS - 2 & 3-CYL. LOOPCHARGED (1975-2006)

Large Gearcase

No. 22860 PROP SHAFT BEARING OEM: 379504	No. 22870 REVERSE GEAR BEARING OEM: 382407	No. 21641 THRUST WASHER REVERSE GEAR OEM: 313447	No. 16300 THRUST BEARING REVERSE GEAR OEM: 382408	See Section 4 for Gears	No. 16310 THRUST BEARING FORWARD GEAR OEM: 385043	No. 21644 THRUST WASHER FORWARD GEAR OEM: 324766	No. 22870 FORWARD GEAR BEARING OEM: 382407
							
No. 22400 SCREW OEM: 320041	No. 81100 O-RING OEM: 332584	No. 86030 PROP SHAFT SEAL OEM: 330137			No. 82320 O-RING FOR BEARING CARRIER OEM: 320303	No. 21774 RETAINING RING OEM: 313445	
							
No. 22418 PROP SHAFT OEM: 439185							
							

PROP SHAFT COMPONENTS - V4 90° (1978-1998)

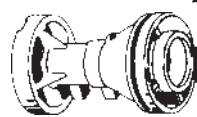
Small Gearcase

No. 22860 PROP SHAFT BEARING OEM: 379504	No. 22870 REVERSE GEAR BEARING OEM: 382407	No. 21642 THRUST WASHER REVERSE GEAR OEM: 314731	No. 16300 THRUST BEARING REVERSE GEAR OEM: 382408	See Section 4 for Gears	No. 16310 THRUST BEARING FORWARD GEAR OEM: 385043	No. 21644 THRUST WASHER FORWARD GEAR OEM: 324766	No. 22870 FORWARD GEAR BEARING OEM: 382407
							
No. 22300 SCREW OEM: 316563	No. 86640 SEAL OEM: 332583	No. 86030 PROP SHAFT SEAL OEM: 330137	No. 11392 OEM: 397087 BEARING CARRIER W/ BEARINGS & SEALS		No. 82370 O-RING FOR BEARING CARRIER OEM: 313446	No. 21774 RETAINING RING OEM: 313445	
							
No. 22416 PROP SHAFT OEM: 436888							
							

Johnson / Evinrude

PROP SHAFT COMPONENTS - V4 60° (1995-2006)

Small Gearcase "New" Style

No. 22860 PROP SHAFT BEARING OEM: 379504	No. 22870 REVERSE GEAR BEARING OEM: 382407	No. 21642 THRUST WASHER REVERSE GEAR OEM: 314731	No. 16300 THRUST BEARING REVERSE GEAR OEM: 382408	See Section 4 for Gears	No. 16310 THRUST BEARING FORWARD GEAR OEM: 385043	No. 21644 THRUST WASHER FORWARD GEAR OEM: 324766	No. 22870 FORWARD GEAR BEARING OEM: 382407
							
No. 22373 SCREW OEM: 350271	No. 27850 TAB OEM: 333957	No. 86030 PROP SHAFT SEAL OEM: 330137	No. 11398 BEARING CARRIER W/ BEARINGS & SEALS OEM: 5000440	No. 82370 O-RING FOR BEARING CARRIER OEM: 313446			
			 				
No. 22419 PROP SHAFT OEM: 5006310	 						

PROP SHAFT COMPONENTS - V4/V6/V8 - "M" Type (2002-2006)

Large Gearcase "New" Style

No. N/A PROP SHAFT BEARING OEM: 436752	No. 22870 REVERSE GEAR BEARING OEM: 382407	No. 21654 THRUST WASHER REVERSE GEAR OEM: 349193	No. 16340 THRUST BEARING REVERSE GEAR OEM: 389042	See Section 4 for Gears	No. 16340 THRUST BEARING FORWARD GEAR OEM: 389042	No. 21646 THRUST WASHER FORWARD GEAR OEM: 327669	No. 22910 FORWARD GEAR BEARING OEM: 389039
		 NEW					
No. 22373 SCREW OEM: 350271	No. 27850 TAB OEM: 333957	No. 86810 PROP SHAFT SEAL - 2 PCS. OEM: 334950	No. 86012 PROP SHAFT SEAL - 1 PC. OEM: 341281	No. N/A BEARING CARRIER OEM: 5001587	No. 82440 O-RING FOR BEARING CARRIER OEM: 326849		
							
No. 22417 PROP SHAFT OEM: 5004765 ø 1-1/4" (1991-2006)							

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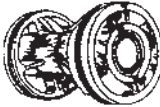
PROP SHAFT COMPONENTS - V4/V6/V8 - "O" Type (1979-1990)

Large Gearcase

No. 11410 PROP SHAFT BEARING OEM: 387247	No. 22870 REVERSE GEAR BEARING OEM: 382407	No. 21642 THRUST WASHER REVERSE GEAR OEM: 314731	No. 16300 THRUST BEARING REVERSE GEAR OEM: 382408	See Section 4 for Gears	No. 16340 THRUST BEARING FORWARD GEAR OEM: 389042	No. 21646 THRUST WASHER FORWARD GEAR OEM: 327669	No. 22910 FORWARD GEAR BEARING OEM: 389039
							
No. 22373 SCREW OEM: 350271	No. 27850 TAB OEM: 333957	No. 85130 PROP SHAFT SEAL OEM: 320862	No. 11406 BEARING CARRIER W/ BEARINGS & SEALS FOR 1991-UP GEARCASE OEM: 438039	No. 82400 O-RING FOR BEARING CARRIER OEM: 305123	No. 11081 KEY OEM: N/A		
							
No. 22414 PROP SHAFT OEM: 395209 Ø 1-3/16" (1979-1990)							
							

PROP SHAFT COMPONENTS - V4/V6/V8 - "O" Type (1991-2006)

Large Gearcase

No. 22950 PROP SHAFT BEARING OEM: 434467	No. 22870 REVERSE GEAR BEARING OEM: 382407	No. 21642 THRUST WASHER REVERSE GEAR OEM: 314731	No. 16300 THRUST BEARING REVERSE GEAR OEM: 382408	See Section 4 for Gears	No. 16340 THRUST BEARING FORWARD GEAR OEM: 389042	No. 21646 THRUST WASHER FORWARD GEAR OEM: 327669	No. 22910 FORWARD GEAR BEARING OEM: 389039
							
No. 22373 SCREW OEM: 350271	No. 27850 TAB OEM: 333957	No. 86810 PROP SHAFT SEAL OEM: 334950	No. 11408 BEARING CARRIER W/ KEY BEARINGS & SEALS FOR 1991-UP GEARCASE OEM: 5000363	No. 82400 O-RING FOR BEARING CARRIER OEM: 305123	No. 11081 KEY OEM: N/A		
							
No. 21651 THRUST WASHER OEM: 336565	No. 22417 PROP SHAFT OEM: 5004765 Ø 1-1/4" (1991-2006)						
							

Johnson / Evinrude

LOWER HOUSING BEARINGS APPLICATIONS

HP / Gcs. Type	Year	Drive Shaft Brg./Race	Pinion Bearing	P.Shaft Needle Bearing	Roller Bearing Reverse	Roller Bearing Forward	Roller Bearing Forward	Thrust Brg./Race Reverse	Thrust Brg./Race Forward
2-Cylinder Loopcharged (1975-1985) 40-60 HP									
40 All	1984-1985	21511	11423	22900	22890	-	-	-	-
50 All	1975-1985	21511	11423	22900	22890	-	-	-	-
55 All	1976-1985	21511	11423	22900	22890	-	-	-	-
60 All	1980-1985	21511	11423	22900	22890	-	-	-	-
2-Cylinder Loopcharged (1986-2005) 40-60 HP									
40 Small Old	1986-1988	21511	11423	22900	22890	-	-	-	-
40 Small New	1989-2000	16370/21649	11430	22900	22890	22870	22940	16350/21647	16360/21648
45 Small New	1989-1997	16370/21649	11430	22900	22890	22870	-	16350/21647	16360/21648
45 Large	1987-1997	16320/21643	11430	22860	22870	22870	-	16300/21641	16310/21644
48 Small New	1989-1996	16370/21649	11430	22900	22890	22870	22940	16350/21647	16360/21648
48 Large	1987-1996	16320/21643	11430	22860	22870	22870	-	16300/21641	16310/21644
50 Small Old	1986-1988	21511	11423	22900	22890	-	-	-	-
50 Small New	1989-2005	16370/21649	11430	22900	22890	22870	22940	16350/21647	16360/21648
50 Large	1986-2005	16320/21643	11430	22860	22870	22870	-	16300/21641	16310/21644
55 Small Old	1986-1988	21511	11423	22900	22890	-	-	-	-
55 Small New	1989-2005	16370/21649	11430	22900	22890	22870	-	16350/21647	16360/21648
55 Large	1986-2005	16320/21643	11430	22860	22870	22870	-	16300/21641	16310/21644
60 Small Old	1986-1988	21511	11423	22900	22890	-	-	-	-
60 Large	1986-1988	16320/21643	11430	22860	22870	22870	-	16300/21641	16310/21644
3-Cylinder Loopcharged (1973-2001) 65-75 HP									
65 Large	1973	16320/21643	11430	22860	22870	22870	-	16300/21641	16310/21644
65 Large	1984-2001	16320/21643	11430	22860	22870	22870	-	16300/21641	16310/21644
70 Small	1974-2001	21511	11423	22900	22890	-	-	-	-
75 Small	1979-1985	21511	11423	22900	22890	-	-	-	-
75 Large	1975-1988	16320/21643	11430	22860	22870	22870	-	16300/21641	16310/21644
V4 Gearcase (1978-1983)									
85 All	1978-1980	16330/21645	22880	22860	22870	22870	-	16300/21642	16310/21644
90 All	1981-1983	16330/21645	22880	22860	22870	22870	-	16300/21642	16310/21644
100 All	1980	16330/21645	22880	22860	22870	22870	-	16300/21642	16310/21644
115 All	1978-1983	16330/21645	22880	22860	22870	22870	-	16300/21642	16310/21644
V4 Gearcase (1984-Up)									
80 Small	1991-1999	16330/21645	22880	22860	22870	22870	-	16300/21642	16310/21644
80 "O" Type	1991-1999	16330/21645	21610	22950	22870	22910	-	16300/21642	16340/21646
90 Small	1984-2003	16330/21645	22880	22860	22870	22870	-	16300/21642	16310/21644
90 "O" Type	1984-1990	16330/21645	21610	11410	22870	22910	-	16300/21642	16340/21646
90 "O" Type	1991-2003	16330/21645	21610	22950	22870	22910	-	16300/21642	16340/21646
100 Small	1984-2005	16330/21645	22880	22860	22870	22870	-	16300/21642	16310/21644
100 "O" Type	1984-1990	16330/21645	21610	11410	22870	22910	-	16300/21642	16340/21646
100 "O" Type	1991-2005	16330/21645	21610	22950	22870	22910	-	16300/21642	16340/21646
115 Small	1984-Up	16330/21645	22880	22860	22870	22870	-	16300/21642	16310/21644
115 "O" Type	1984-1990	16330/21645	21610	11410	22870	22910	-	16300/21642	16340/21646
115 "O" Type	1991-Up	16330/21645	21610	22950	22870	22910	-	16300/21642	16340/21646
120 "O" Type	1985-1990	16330/21645	21610	11410	22870	22910	-	16300/21642	16340/21646
120 "O" Type	1991-1994	16330/21645	21610	22950	22870	22910	-	16300/21642	16340/21646
125 "O" Type	1989-1990	16330/21645	21610	11410	22870	22910	-	16300/21642	16340/21646



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[illegible]

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OIL SEALS APPLICATIONS

HP	Year	Prop Shaft	Qty. Req.	Drive Shaft	Qty. Req.	HP	Year	Prop Shaft	Qty. Req.	Drive Shaft	Qty. Req.
1.5, 2, 2.5, 3	1958-1968	-	1	86450	1	40	1984-1985	86060	2	86160	2
1.5, 2	1968-1990	86450	1	86450	1	40 (AR, AE, AT)	1988	86030	1	86270 / 86150	1
2.5, 4	1973-1980	86450	1	86450	2	40	1986-1989	86060	2	86460 / 86150	1
2.5	1987	86510	2	86450	2	45 C	1985	86030	2	86270 / 86150	1
2.5, 4	1981-1995	-	1	86450	2	45 C	1986	86030	2	86460 / 86150	1
3 Weedless	1958-1968	86450	1	-	1	45 C	1987	86030	2	86270 / 86150	1
3, 4, 6 Weedless	1968-1982	86400	1	86400	1	45 C	1988-1994	86030	2	86270 / 86150	1
4	1981-90	86510	2	-	1	45 C	1995	86030	2	86460 / 86160	1
4	1984, 1986-95	-	1	86510	2	48	1988-1995	86060	2	86460 / 86160	1
4.5, 7.5	1980-1987	-	1	86510	1	50 (Manual)	1971-1974	86030	2	86150	2
5, 5.5, 6, 7.5	1957-1964	86360	1	86360	1	50	1975	86060	2	86160	1
5, 6, 8	1980-1987	-	1	86510	2	50	1979	86030	2	86150	2
6	1965-1967	-	1	86390	1	50	1980	86060	2	86160	1
6	1968-1979	86390	1	86400	1	50/60 (Pull Start)	1981-1983	86030	2	86150	1
9.5	1964-1973	86360	1	86360	1	50/60 (Electric)	1981-1983	86060	2	86160	1
9.9	1974-1983	86180	1	86170	1	50/60	1984-1985	86060	2	86160	1
9.9	1984-1995	86180	1	86170	1	50/60 (Small)	1986-1987	86060	2	86460 / 86160	1
10	1957-1958	86410	1	86430	1	50/60 (Large)	1986-1987	86030	2	86460 / 86160	1
10	1959-1963	86360	1	86360	1	50/60	1988-1989	86030	2	86460 / 86160	1
10	1981	86390 (inner)	1	-	1	50	1990-1995	86060	2	86460 / 86160	1
10	1989	86190 / 86150	1	86270 / 86150	1	55	1968-1969	85110	2	86160	2
14	1988-1990	86190 / 86150	1	86270 / 86150	1	55	1976-1977	86060	2	86160	2
15	1974-1983	86180	2	86170	1	55	1978	86160	1	86160	2
15	1984-1995	86180	2	86170	1	55	1979-1983	86030	2	86150	1
18	1957	86410	1	86430	1	55 (Electric)	1980-1983	85110	2	86160	2
18	1958-1973	86410	1	86430	1	55 C	1984	86030	2	86270 / 86150	1
20	1981-1982	86190 / 86420	1	86420	1	55 C	1985	86030	2	86270	1
20	1983	86190 / 86420	1	86150 / 86420	1	55 C	1986	86030	2	86460 / 86160	1
20	1984	86120 / 86150	1	86270 / 86420	1	55 C	1987-1994	86030	2	86270 / 86160	1
20	1985-1986	85120	1	86200	1	55 C	1995	86030	2	86460 / 86770	1
20	1987-1995	85120	1	86200 / 86520	1	60 (Manual)	1964-1968	86740	1	86750	1
25	1969-1976	86410	1	86430	1	60	1970	85110	1	86160	2
25	1977-1978	86410	1	86430	1	60 (3-Cyl.)	1971	86030	2	86160	2
25	1979-1982	86190 / 86420	1	86420	1	60 (Pull Start)	1980-1983	86030	2	86150	2
25	1983	86190 / 86420	1	86150 / 86420	1	60 (Electric)	1980-1983	86030	2	86160	2
25	1984	86190 / 86150	1	86270 / 86420	1	60	1970	85110	1	86160	2
25	1985-1986	85120	1	86200	2	60 SST	1989	86060	2	86460 / 86160	1
25	1987-1995	85120	1	86270 / 86420	1	60 SST	1990	86060	2	86460 / 86160	1
25 C	1982	86420	1	86420	1	60 (3-Cyl.)	1987-1995	86030	2	86460 / 86160	1
25 C	1983	86190 / 86150	1	86150 / 86420	1	65 (Manual)	1968	86740	1	86750	1
25 C	1984-1990	86190 / 86150	1	86270 / 86150	1	65 (3-Cyl.)	1972-1973	86030	2	86160	2
28	1962-1964	86350	1	86410	1	65 C	1984-1985	86030	2	86160	2
28	1987-1990	86190 / 86150	1	86270 / 86150	1	65 C	1986-1989	86030	2	86460 / 86160	1
30	1984-1986	85120	1	86200	1	70 (Large)	1974-1985	86030	2	86160	2
30	1987-1995	85120	1	86200 (inner)	1	70 (Large)	1986-1995	86030	2	86460 / 86160	1
33	1965-1976	86350	1	86410	1	70 (Small)	1977-1985	86060	2	86160	2
35	1957-1959	86350	1	86410	1	75 (Manual)	1960-1962	86740	1	86750	1
35	1976	85120	1	86150	2	75 (Large)	1975-1984	86030	2	86160	2
35	1977-1986	85120	2	86200	2	75 (Large)	1986-1987	86030	2	86460 / 86160	1
35	1987-1990	85120	2	86200 (inner)	1	75 (Small)	1975-1984	86060	2	86160	2
40	1960-1961	86350	1	86410	1	80	1966-1968	86740	1	86750	1
40	1962-1973	86350	1	86410	1	85	1969-1970	85110	2	86160	2
40	1974-1976	86350	1	86180	1	85	1971-1972	86030	2	86160	2
40 C	1981-1986	86350	1	86180	2	85	1973-1980	86030	2	85120	2

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OIL SEALS APPLICATIONS CONTINUED

HP	Year	Prop Shaft	Qty. Req.	Drive Shaft	Qty. Req.
88	1987-1994	86030	2	86240 / 86250	1
90	1981-1983	86030	2	85120	2
90	1984-1994	86030	2	86240 / 86250	1
90 Seadrive	1985-1990	86030	2	86240 / 86250	1
100	1971-1972	86030	2	86160	2
100	1979-1980	86030	2	85120	2
100 C	1984-1990	85130	2	86240 / 86250	1
110	1986-1988	86030	2	86240 / 86250	1
115	1969-1970	85110	2	86160	2
115	1973-1983	86030	2	85120	2
115	1984-1985	86030	2	86240 / 86250	1
115	1990-1994	86030	2	86240 / 86250	1
120	1985	85130	2	86240 / 86250	1
120	1986-1988	86030	2	86240 / 86250	1
120	1989	85130	2	86240 / 86250	1
120	1990-1994	86030	2	86240 / 86250	1
125	1971-1972	86030	2	86160	2
125 C	1989	85130	2	86240 / 86250	1
125 C (ESX)	1989	86030	2	86240	1
135	1973-1976	86030	2	85120	2
140	1977-1983	86030	2	85120	2
140	1984	86030	2	85120	2
140	1985	85130	2	86240 / 86250	1
140	1986-1994	86030	2	86240 / 86250	1
140 TX	1989	85130	1	86240 / 86250	1
150	1978-1983	85130	2	85120	2
150	1984	85130	2	86240 / 86250	1
155 C	1984-1985	85130	2	86240 / 86250	1
155 C	1986-1990	85130	2	86240 / 86250	1
175	1977-1985	85130	2	85120	2
175	1986-1990	85130	2	86240 / 86250	1
185	1984-1985	85160	2	86240 / 86250	1
185	1990	85130	2	86240 / 86250	1
200	1976-1983	85130	2	85120	2
200	1984-1985	85130	2	86240 / 86250	1
200, 225	1986-1990	85130	2	86240 / 86250	1
235	1978-1983	85130	2	85120	2
235	1984-1985	85130	2	86240 / 86250	1
275	1985-1988	85130	2	86240 / 86250	1
3.6L, 300	1985-1990	85130	2	86240 / 86250	1

DRIVE SHAFT HOUSING OIL SEALS APPLICATIONS

HP	Year	Oil Seal	Qty.	Application
5, 6, 6.5, 8	1982-2001	86510	1	Driveshaft to Exhaust Housing
25, 40, 45, 50, 55	1987-1994	86270	1	Exhaust Housing to Adapter
50	1958-1968	86060	1	Pivot Shaft
60	1958-1968	86060	1	Pivot Shaft
65	1958-1968	86060	1	Pivot Shaft
75	1961-1968	86060	1	Pivot Shaft
80	1961-1968	86060	1	Pivot Shaft
85	1961-1968	86060	1	Pivot Shaft
90	1964-1968	86060	1	Pivot Shaft
100	1964-1968	86060	1	Pivot Shaft

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LOWER DRIVE SHAFT IDENTIFICATION

No. 22405

OEM: 346004
V4 60°
Small Gearcase
Length: 9-7/16"
Pinion Bearing Journal ø: 1-1/8"
Pinion Gear Splines: 6



No. 22409

OEM: 346006
V4 90°
Small Gearcase
Length: 8-3/4"
Pinion Bearing Journal ø: 1-1/8"
Pinion Gear Splines: 6

No. 22407

OEM: 345905
"O" Type
Large Gearcase
Length: 9-1/2"
Pinion Bearing Journal ø: 1-1/8"
Pinion Gear Splines: 19

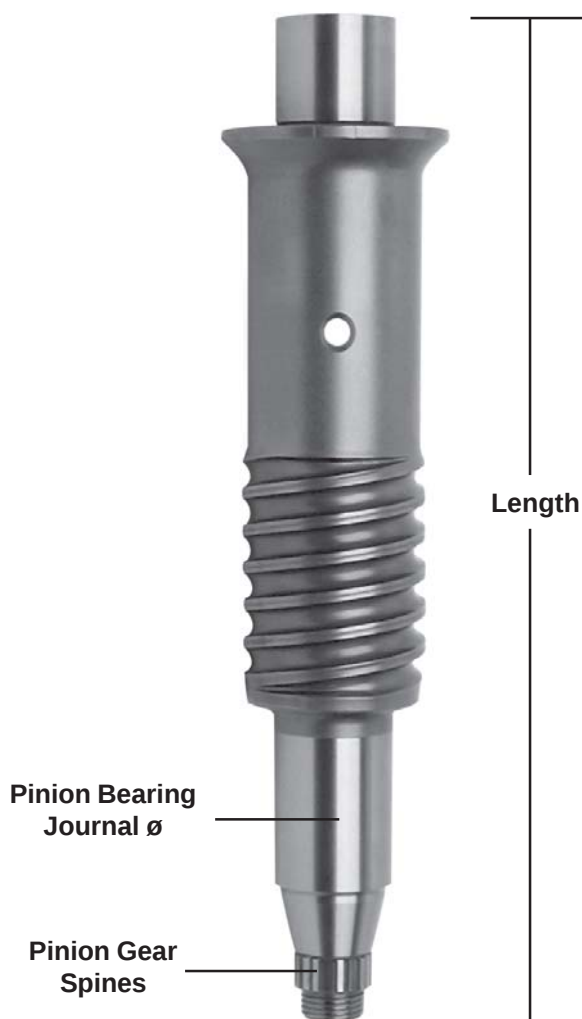
No. 22403

OEM: 347371
"M" Type
Large Gearcase
Length: 9-1/2"
Pinion Bearing Journal ø: 1-1/8"
Pinion Gear Splines: 20



No. 22408

OEM: 335679
V8
Large Gearcase
Length: 10"
Pinion Bearing Journal ø: 1-9/32"
Pinion Gear Splines: 19



V4/V6 TWO-PIECE DRIVE SHAFT APPLICATIONS - LOWER SHAFT

Model	Year	Gearcase Type	Drive Shaft GLM No.	Drive Shaft OEM No.
V4 All Crossflow	1978-1997	Small (V4 90°)	22409	346006
V4 All Crossflow	1984-1997	"O" Type	22407	345905
V4 90° Loopcharged	1985-1998	"O" Type	22407	345905
V4 60°	1995-2006	Small (V4 60°)	22405	346004
V4 60°	1995-2006	"O" Type	22407	345905
V6 90°	1978-2006	"O" Type	22407	345905
V6 60°	1991-2006	"O" Type	22407	345905
V6	2002-2006	"M" Type	22403	347371



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UPPER DRIVE SHAFT IDENTIFICATION

No. 22431

OEM: 5000618

Length: 25-1/4"

No. 22432

OEM: 5000626

Length: 30-1/4"

No. 22433

OEM: 5000614

Length: 25-11/16"

No. 22434

OEM: 5000623

Length: 30-11/16"

No. 22435

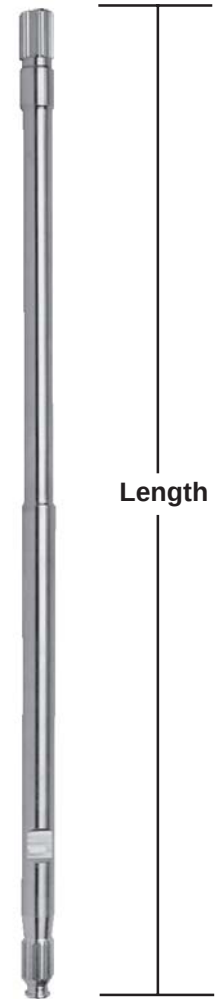
OEM: 5000615

Length: 24-3/4"

No. 22436

OEM: 5000624

Length: 29-3/4"

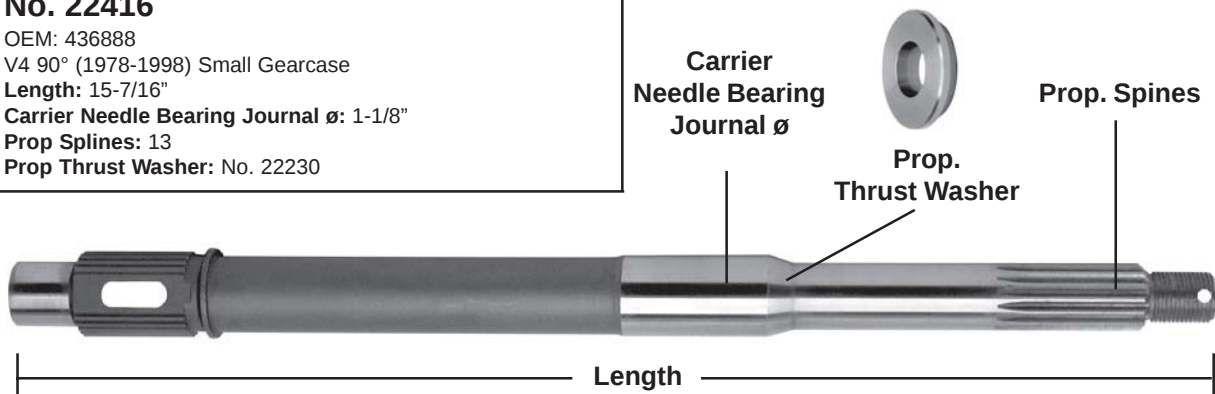


V4/V6 TWO-PIECE DRIVE SHAFT APPLICATIONS - UPPER SHAFT

Model	Year	20" Standard Transom			25" Long Transom		
		GLM No.	OEM No.	Length	GLM No.	OEM No.	Length
V4 All	1978-1991	22431	5000618	25-1/4"	22432	5000626	30-1/4"
V4 90°	1992-1998	22433	5000614	25-11/16"	22434	5000623	30-11/16"
V4 60°	1995-2006	22435	5000615	24-3/4"	22436	5000624	29-3/4"
V6 All	1976-1991	22431	5000618	25-1/4"	22432	5000626	30-1/4"
V6 90°	1992-2006	22433	5000614	25-11/16"	22434	5000623	30-11/16"
V6 60°	1991-2006	22435	5000615	24-3/4"	22436	5000624	29-3/4"

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PROP SHAFT IDENTIFICATION

No. 22421 OEM: 439138 2-Cyl. Loopcharged (1989-2005) Small Gearcase Length: 13-13/32" Carrier Needle Bearing Journal ø: 1.0" Prop Splines: 13 Prop Thrust Washer: No. 22240	No. 22419 OEM: 436834 V4 60° (1995-2006) Small Gearcase Length: 16-9/16" Carrier Needle Bearing Journal ø: 1-1/8" Prop Splines: 13 Prop Thrust Washer: No. 22230	NEW
No. N/A OEM: 386659 2 & 3-Cyl. Loopcharged (1975-1988) Small Gearcase Length: N/A Carrier Needle Bearing Journal ø: 1.0" Prop Splines: 13 Prop Thrust Washer: No. 22240	No. 22414 OEM: 395209 "O" Type (1979-1990) Large Gearcase Length: 17-27/32" Carrier Needle Bearing Journal ø: 1-3/16" Prop Splines: 15 Prop Thrust Washer: No. 22220	
No. 22418 OEM: 439185 2 & 3-Cyl. Loopcharged (1975-2006) Large Gearcase Length: 14-29/64" Carrier Needle Bearing Journal ø: 1-1/8" Prop Splines: 13 Prop Thrust Washer: No. 22230	No. 22417 OEM: 5004765 "O" Type (1991-2006), "M" Type (2001-2006) Large Gearcase Length: 17-7/8" Carrier Needle Bearing Journal ø: 1-1/4" Prop Splines: 15 Prop Thrust Washer: No. 22221	
No. 22416 OEM: 436888 V4 90° (1978-1998) Small Gearcase Length: 15-7/16" Carrier Needle Bearing Journal ø: 1-1/8" Prop Splines: 13 Prop Thrust Washer: No. 22230		

PROP SHAFT APPLICATIONS

Model	Year	Gearcase Type	Prop Shaft GLM No.	Prop Shaft OEM No.
2 & 3-Cyl. Loopcharged	1975-1988	Small	-	386659
2-Cyl. Loopcharged	1989-2006	Small	22421	439138
2 & 3-Cyl. Loopcharged	1975-2006	Large	22418	439185
V4 All Crossflow	1978-1998	Small (V4 90°)	22416	436888
V4 90° All	1984-1990	"O" Type	22414	395209
V4 90° All	1991-1998	"O" Type	22417	5004765
V4 60°	1995-2006	Small (V4 60°)	22419	436834
V4 60°	1995-2006	"O" Type	22417	5004765
V6 90°	1978-1990	"O" Type	22414	395209
V6 90°	1991-2006	"O" Type	22417	5004765
V6 60°	1991-2006	"O" Type	22417	5004765
V6	2002-2006	"M" Type	22417	5004765



Section 7

Johnson / Evinrude Water Pumps

<i>Water Pump Impellers 15 HP & Below</i>	<i>78</i>
<i>Water Pump Kits 15 HP & Below</i>	<i>79</i>
<i>Water Pump Impellers 18-40 HP 2-Cyl. Crossflow</i>	<i>80</i>
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Johnson / Evinrude

WATER PUMP IMPELLERS 15 HP & BELOW

Water Pump Impeller Identification 15 HP & Below

These water pump impellers can be divided into two distinct groups.

High volume water pumps use long vane impellers (old style).

High pressure water pumps use short van impellers (new style).

No. 89580

HIGH VOLUME / LONG VANE IMPELLER

OEM: 434424

(1952-1982) See Water Pumps

Application Guide for Models

Outside ø: 2.50"

Inside ø: .425"



*No. 89594

KEY - PIN

OEM: 300611



* Order Separately

No. 89490

HIGH PRESSURE / SHORT VANE IMPELLER

OEM: 387361

(1968-1990) See Water Pumps

Application Guide for Models

Outside ø: 1.50"

Inside ø: .440"



*No. N/A

KEY - PIN

OEM: 321130



* Order Separately

No. 89650

HIGH VOLUME / LONG VANE IMPELLER

OEM: 775518

(1956-1963) 10 HP

Outside ø: 2.50"

Inside ø: .500"



*No. 89594

KEY - PIN

OEM: 300611



* Order Separately

No. 89500

HIGH PRESSURE / SHORT VANE IMPELLER

OEM: 389576, 436137

(1980-1990) See Water Pumps

Application Guide for Models

Outside ø: 1.50"

Inside ø: .440"



*No. 89594

KEY - PIN

OEM: 300611



* Order Separately

No. 89670

HIGH VOLUME / LONG VANE IMPELLER

OEM: 775519, 377178

(1964-1973) 9.5 HP

Thru-Cavitation Plate Exhaust

Outside ø: 2.50"

Inside ø: .550"



*No. 89594

KEY - PIN

OEM: 300611



* Order Separately

No. 89770

HIGH PRESSURE / SHORT VANE IMPELLER

OEM: 386084

(1974-Up) 9.9, 15 HP

Thru-Prop Exhaust

Outside ø: 1.50"

Inside ø: .500"



*No. 89594

KEY - PIN

OEM: 300611



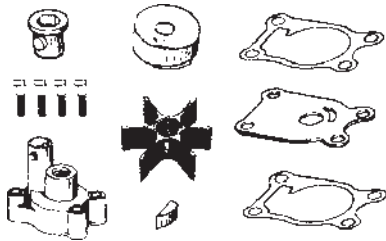
* Order Separately

Johnson / Evinrude

WATER PUMP KITS 15 HP & BELOW

No. 12065

OEM: N/A



NEW

Fits (1980-Up) 4, 4.5, 5, 6, 7.5 and 8 HP 2-Stroke outboards.

No. 22322

SCREW

OEM: 324430

Kit Contains: 4



No. 89594

PIN

OEM: 300611

No. 86492

GROMMET

OEM: 302497



No. 36810

GASKET

OEM: 325040

Kit Contains: 2

No. 86499

GROMMET

OEM: 321129



No. 12555

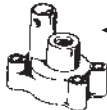
WEAR PLATE

OEM: 324640

No. 12436

PUMP HOUSING

OEM: 389577



No. 80110

O-RING

OEM: 25-62702

No. 12818

PUMP CUP

OEM: 324641



No. 89500

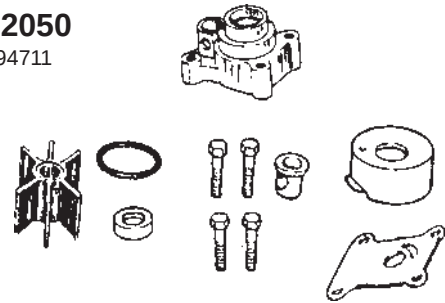
IMPELLER

OEM: 389576



No. 12050

OEM: 394711



Fits (1974-Up) 9.9, 15 HP. Fits (1994-Up) 9.9, 15 HP 4-Stroke.

No. 22360

SCREW

OEM: 302325

Kit Contains: 4



No. 80120

O-RING

OEM: 202893

No. 86498

GROMMET

OEM: 338908



No. 89770

IMPELLER

OEM: 386084

No. 86492

GROMMET

OEM: 302497



No. 89594

PIN

OEM: 300611

No. 86496

GROMMET

OEM: 327035



No. 86120

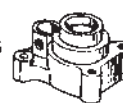
SEAL

OEM: 318972

No. 12460

PUMP HOUSING

OEM: 435390



No. 12610

WEAR PLATE

OEM: 318995

No. 12813

PUMP CUP

OEM: 324097



No. 83200

O-RING

OEM: 319085

Water Pump Kits w/o Housing

No. 12255

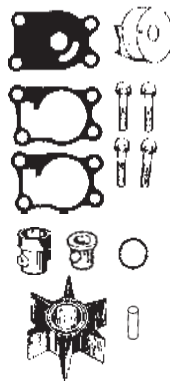
W/O HOUSING

OEM: 396644

NEW

Kit Contains:

QTY	ITEM	GLM	OEM
1	Impeller	89500	389576
1	Pin	89594	300611
1	Pump Cup	12818	324641
1	Wear Plate	12555	324640
2	Gasket	36810	325040
1	O-ring	80110	303191
1	Grommet	86492	302497
1	Grommet	86499	321129
4	Screws	22322	324430



Fits (1980-Up) 4, 4.5, 5, 6, 7.5 and 8 HP 2-Stroke outboards.

Water Pump Impeller Kits

No. 12108

OEM: N/A

3-5 HP (1952-78)

4 HP (1969-83)

5 HP (1965-68)

5.5 HP (1954-79)

6 HP (1954-79)

7.5 HP (1954-58)

Kit Contains:

QTY	ITEM	GLM	OEM
1	Impeller	89580	434424
1	Wear Plate	12600	203132



Johnson / Evinrude

WATER PUMP IMPELLERS 18-40 HP 2-CYLINDER CROSSFLOW

Water Pump Impeller Identification 18-40 HP

The Johnson / Evinrude 2-Cylinder crossflow engine has used two different styles of gearcases. Until the 1980 model all gearcases were a two-piece design and had thru-cavitation plate exhaust. This gearcase was in production until 1997. A one-piece gearcase with thru-prop exhaust was introduced in 1980 and in production until 2005.

No. 89650

OEM: 775518
(1957-1978) 18, 20, 25 HP
Outside ø: 2.750"
Inside ø: .50"
Fits Two-Piece Gearcase w/
Thru-Cavitation Plate Exhaust



*No. 89595

KEY - STAINLESS STEEL HALF-MOON
OEM: 308928



* Order Separately

No. 89750

OEM: 395289
(1979-2005) 20-35 HP
Outside ø: 1.975"
Inside ø: .625"
Fits One-Piece Gearcase w/
Thru-Prop Exhaust.
Fits Two-Piece Gearcase w/
Thru-Cavitation Plate Exhaust



Impeller includes:

No. 89593

KEY - WHITE PLASTIC WEDGE
OEM: 344470



No. 89660

OEM: 777213
(1958-1970) 35, 40 HP
Outside ø: 2.750"
Inside ø: .625"
Height: .875"
Fits Two-Piece Gearcase w/
Thru-Cavitation Plate Exhaust



*No. 89595

KEY - STAINLESS STEEL HALF-MOON
OEM: 308928



* Order Separately

No. 89480

OEM: 775521
(1971-1973) 40 HP
Outside ø: 2.750"
Inside ø: .625"
Height: .50"
Fits Two-Piece Gearcase w/
Thru-Cavitation Plate Exhaust



*No. 89595

KEY - STAINLESS STEEL HALF-MOON
OEM: 308928



* Order Separately

No. 89990

OEM: 390286
(1974-1976) 40 HP, (1981-1987) 40 HP
Outside ø: 2.00"
Inside ø: .690"
Fits Two-Piece Gearcase w/
Thru-Cavitation Plate Exhaust



*No. 89595

KEY - STAINLESS STEEL HALF-MOON
OEM: 308928



* Order Separately

Johnson / Evinrude

WATER PUMP KITS 18-40 HP 2-CYLINDER CROSSFLOW

No. 12070

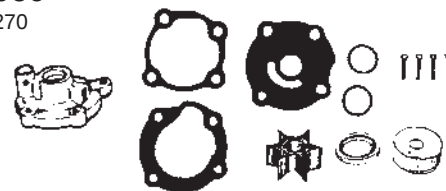
OEM: 393630



Fits (1980-2005) 20-35 HP 2-Cyl. crossflow engines with thru-prop exhaust and one-piece gearcase.

No. 12060

OEM: 395270



Fits (1979-1998) 18, 25 and 28 HP 2-Cyl. crossflow engines with thru-cavitation plate exhaust and two-piece gearcase.

No. 22360

SCREW

OEM: 324960

Kit Contains: 6



No. 80180

O-RING

OEM: 311338

Kit Contains: 2

No. 86492

GROMMET

OEM: 302497



No. 86230

SEAL

OEM: 328753

No. 21721

WASHER

OEM: 318452

Kit Contains: 6



No. 12630

WEAR PLATE

OEM: 328755

No. 45230

O-RING

FOR BUSHING

OEM: 301877



No. 34520

GASKET

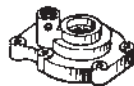
OEM: 325537

No. 12470

PUMP HOUSING

OEM: 393632

* Includes 21427



No. 81220

O-RING

OEM: 554545

No. 21427*

BRASS BUSHING

OEM: 328754

Included in 12470



No. 89750

IMPELLER

OEM: 395289

No. 12812

PUMP CUP

OEM: 328751



No. 89593

KEY

OEM: 330619

No. 22360

SCREW

OEM: 324960

Kit Contains: 4



No. 34560

GASKET

OEM: 329390

No. 86492

GROMMET

OEM: 302497



No. 12640

WEAR PLATE

OEM: 329391

No. 12440

PUMP HOUSING

OEM: 330560



No. 33511

GASKET

OEM: 324449

No. 12812

PUMP CUP

OEM: 328751



No. 86150

OIL SEAL

OEM: 321459

No. 81170

O-RING

OEM: 301967

Kit Contains: 2



No. 89750

IMPELLER

OEM: 395289



No. 89593

KEY

OEM: 330619



No. 12247

OEM: 391741



Fits (1974-1976) 40 2-Cyl. crossflow engines
Fits (1981-1987) 40 Comm. 2-Cyl. crossflow engines with thru-cavitation plate exhaust and two-piece gearcase. Half-moon key.

No. 86483

GROMMET

OEM: 304026



No. 12474

PUMP HOUSING

OEM: 390613

No. 12816

PUMP CUP

OEM: 325397



No. 89990

IMPELLER

OEM: 390286



No. 12564

WEAR PLATE

OEM: 325398

No. 36860

GASKET

OEM: 325229



No. 36850

GASKET

OEM: 325399

No. 86180

OIL SEAL

OEM: 321466



Johnson / Evinrude

WATER PUMP IMPELLERS 2 & 3-CYLINDER LOOPCHARGED

Water Pump Impeller Identification 2 & 3-Cylinder Loopcharged

There are four different sized lower gear housings used on these outboards:

- 1968-1994, small diameter gear housing utilizing a small 6 vane water pump impeller and a small water pump housing.
- 1968-2005, large diameter gear housing utilizing a large 6 vane water pump impeller and a large water pump housing.
- 1989-2005, 40, 45, 48, 50 HP 2-Cylinder, small diameter gear housing utilizing a large 3 vane water pump impeller and a large water pump housing.
- 1996-2001, 25, 30 and 35 HP 3-Cylinder, small diameter gear housing utilizing a small 6 vane water pump impeller and a small water pump housing.

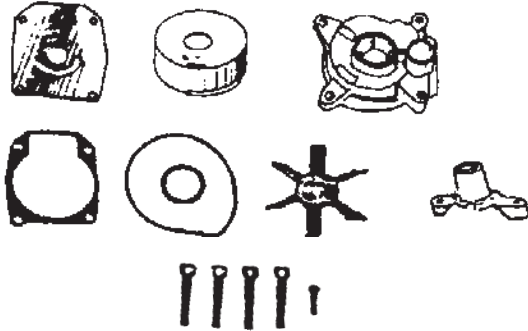
No. 89660 OEM: 777213 (1971-1978) small $\varnothing$ lower gear hsg. Outside $\varnothing$: 2.750" Inside $\varnothing$: .625" *No. 89595 KEY - STAINLESS STEEL HALF-MOON OEM: 308928   Small 6 Vane * Order Separately	No. 89750 OEM: 395289 (1996-2001) 3-Cyl. 25, 30, 35 HP small $\varnothing$ lower gear hsg. Outside $\varnothing$: 1.975" Inside $\varnothing$: .625" Impeller includes: No. 89593 KEY - WHITE PLASTIC WEDGE OEM: 330619   Small 6 Vane
No. 89690 OEM: 389589 (1979-1985) small $\varnothing$ lower gear hsg. Outside $\varnothing$: 2.750" Inside $\varnothing$: .625" *No. 89594 KEY - PIN OEM: 300611   Small 6 Vane * Order Separately	No. 89940 OEM: 382547 (1968-1978) large $\varnothing$ lower gear hsg. Outside $\varnothing$: 3.600" Inside $\varnothing$: .750" *No. 89595 KEY - STAINLESS STEEL HALF-MOON OEM: 308928   Large 6 Vane * Order Separately
No. 89780 OEM: 396809 (1984-1994) small $\varnothing$ lower gear hsg. Outside $\varnothing$: 2.750" Inside $\varnothing$: .625" Impeller includes: No. 89593 KEY - WHITE PLASTIC WEDGE OEM: 330619   Small 6 Vane	No. 89710 OEM: 396725 (1979-2001) large $\varnothing$ lower gear hsg. Outside $\varnothing$: 3.600" Inside $\varnothing$: .750"  Large 6 Vane
No. 89790 OEM: 432941 (1989-2005) 2-Cyl. 40, 45, 48, 50 HP small $\varnothing$ lower gear hsg. Outside $\varnothing$: 3.600" Inside $\varnothing$: .750" Impeller includes: No. 81250 O-ring *No. 89592 KEY - BLACK PLASTIC WEDGE OEM: 334897   Large 3 Vane * Order Separately	Impeller includes: No. 89591 KEY - WHITE PLASTIC WEDGE OEM: 331901 Impeller includes: No. 89592 KEY - BLACK PLASTIC WEDGE OEM: 334897  

Johnson / Evinrude

WATER PUMP KITS 2 & 3-CYLINDER LOOPCHARGED

No. 12232

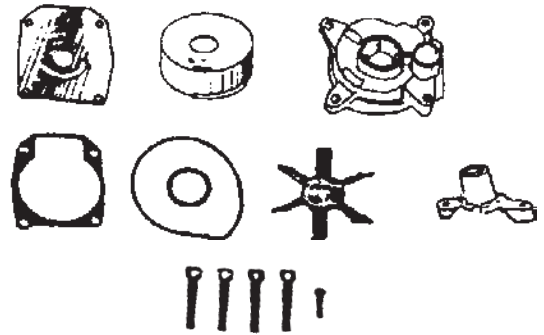
OEM: 389133



Fits (1971-1978) 2-Cyl. and 3-Cyl. loopcharged engines with the small gearcase. Small water pump with half-moon key impeller.

No. 12210

OEM: 439077



Fits (1984-1994) 2-Cyl. and 3-Cyl. loopcharged engines with the small gearcase. Small water pump with plastic wedge key impeller.

No. 22324

SCREW

OEM: 331980

Kit Contains: 2



No. 89595

KEY

OEM: 308928

No. 22324

SCREW

OEM: 331980

Kit Contains: 2



No. 89593

KEY - PLASTIC

OEM: 344470

No. 12940

TUBE GUIDE

OEM: 315838



No. 86580

SEAL

OEM: 315788

No. 12940

TUBE GUIDE

OEM: 315838



No. 86580

SEAL

OEM: 315788

No. 86494

GROMMET

OEM: 315837



No. 12620

WEAR PLATE

OEM: 320981

No. 86494

GROMMET

OEM: 315837



No. 12620

WEAR PLATE

OEM: 320981

No. 22360

SCREW

OEM: 302325

Kit Contains: 4



No. 33150

GASKET

OEM: 336530

No. 22360

SCREW

OEM: 302325

Kit Contains: 4



No. 33150

GASKET

OEM: 336530

No. 12450

PUMP HOUSING

OEM: 384087



No. 86491

GROMMET

OEM: 315748

No. 12450

PUMP HOUSING

OEM: 384087



No. 86491

GROMMET

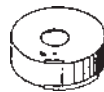
OEM: 341732

No. 12814

PUMP CUP

OEM: 320775

+320776

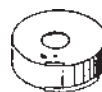


No. 12814

PUMP CUP

OEM: 320775

+320776



No. 81120

O-RING

OEM: 303059



No. 81120

O-RING

OEM: 303059



No. 89660

IMPELLER

OEM: 377230



No. 89780

IMPELLER

OEM: 396809



No. 89591

KEY - WHITE

OEM: 331901

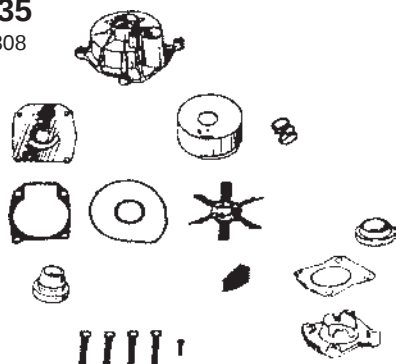


Johnson / Evinrude

WATER PUMP KITS 2 & 3-CYLINDER LOOPCHARGED

No. 12235

OEM: 5000308



Fits (1995-2005) 40, 45 and 55 HP, (2004-2005) 40, 50 and 60 HP
2-Cyl. loopcharged engines with the large gearcase.
Large water pump with the six vane impeller.

No. 22360

SCREW

OEM: 10-28667

Kit Contains: 2



No. 86570

SEAL

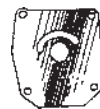
OEM: 324981

No. 22352

SCREW

OEM: 337574

Kit Contains: 2



No. 12551

WEAR PLATE

OEM: 341038

No. 86497

GROMMET

OEM: 333758



No. 33150

GASKET

OEM: 336530

No. 12482

PUMP HOUSING

OEM: 438545



No. 86491

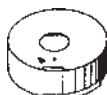
GROMMET

OEM: 315748

No. 12815

PUMP CUP

OEM: 340619



No. 11053

SPRING

OEM: 343977

No. 81140

O-RING

OEM: 335132



No. 13240

THERMOSTAT
COVER

OEM: 343141

No. 89710

IMPELLER

OEM: 396725



No. 35440

GASKET

OEM: 329830

No. 89592

KEY (BLACK)

OEM: 334897



No. 89591

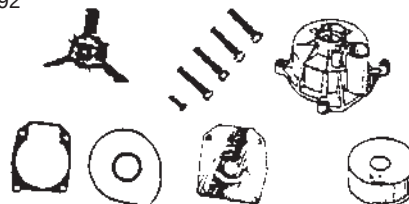
KEY (WHITE)

OEM: 331901



No. 12245

OEM: 438592



Fits (1989-2005) 40, 45, 48 and 50 HP 2-Cyl. loopcharged engines w/
small gearcase. Large water pump with the three vane impeller.

No. 22360

SCREW

OEM: 302325

Kit Contains: 4



No. 89790

IMPELLER

OEM: 432941

No. 86497

GROMMET

OEM: 333758



No. 82100

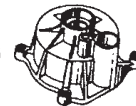
O-RING

OEM: 310584

No. 12480

PUMP HOUSING

OEM: 438544



No. 89592

KEY

OEM: 334897

No. 81250

O-RING

OEM: 331188



No. 86570

SEAL

OEM: 324981

No. 12815

PUMP CUP

OEM: 340619



No. 12551

WEAR PLATE

OEM: 341038

No. 33150

GASKET

OEM: 336530



No. 86491

GROMMET

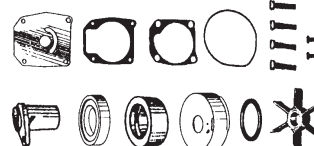
OEM: 341732



Water Pump Kit w/o Housing

No. 12252

OEM: N/A



Kit Contains:

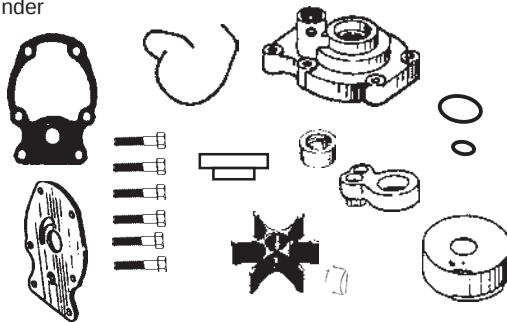
QTY	ITEM	GLM	OEM	QTY	ITEM	GLM	OEM
1	Pump Cup	12815	340619	4	Screws	22360	331979
1	Wear Plate	12550	341038	1	Grommet	86490	314008
1	Guide	12950	319276	1	Grommet	86491	315748
1	Gasket	33150	336530	1	O-ring	81140	326649
1	Gasket	34330	319586	1	Impeller	89710	396725
1	Seal	86570	324981	1	Key	89591	331901
2	Screws	22320	908158	1	Key	89592	334897

Johnson / Evinrude

WATER PUMP KITS 2 & 3-CYLINDER LOOPCHARGED

No. 12233

OEM: 437907
3-Cylinder



Fits (1996-2001) 25, 30 and 35 HP 3-Cyl. loopcharged engines.

No. 22351

SCREW
OEM: 328725
Kit Contains: 6



No. 12630

WEAR PLATE
OEM: 328755



No. 86487

GROMMET
OEM: 340811



No. 34520

GASKET
OEM: 325537



No. 21427

BUSHING
OEM: 328754



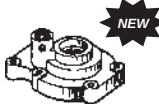
No. 86216

SEAL
OEM: 342370



No. 12472

PUMP HOUSING
OEM: 339720



No. 45230

O-RING
OEM: 301877



No. 12812

PUMP CUP
OEM: 328751



No. 81220

O-RING
OEM: 554545



No. 89750

IMPELLER
OEM: 395289



No. 89593

KEY
OEM: 344470



No. 86230

SEAL
OEM: 328753



No. 12246

OEM: 432955



Fits (1986-2001) 65, 70 and 75 HP 3-Cyl. loopcharged engines with the large gearcase. Large water pump with plastic wedge key impeller.

No. 10561

ELBOW
OEM: 321886



No. 89710

IMPELLER
OEM: 396725



No. 10563

ELBOW
OEM: 126776



No. 89591

KEY - WHITE
OEM: 331901



No. 11054

SPRING
OEM: 333858



No. 89592

KEY - BLACK
OEM: 334897



No. 12950

TUBE GUIDE
OEM: 319276



No. 33150

GASKET
OEM: 336530



No. 86493

GROMMET
OEM: 344227



No. 12550

WEAR PLATE
OEM: 341038



No. 22320

SCREW
OEM: 908158
Kit Contains: 1



No. 86570

SEAL
OEM: 324981



No. 22360

SCREW
OEM: 302325
Kit Contains: 4



No. 11053

SPRING
OEM: 343977



No. 86490

GROMMET
OEM: 314008



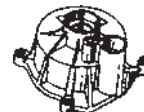
No. 13240

THERMOSTAT
COVER
OEM: 343141



No. 12400

PUMP HOUSING
OEM: 438543



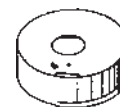
No. 35440

GASKET
OEM: 329830



No. 12815

PUMP CUP
OEM: 340619



No. 86491

GROMMET
OEM: 341732



No. 81140

O-RING
OEM: 326649

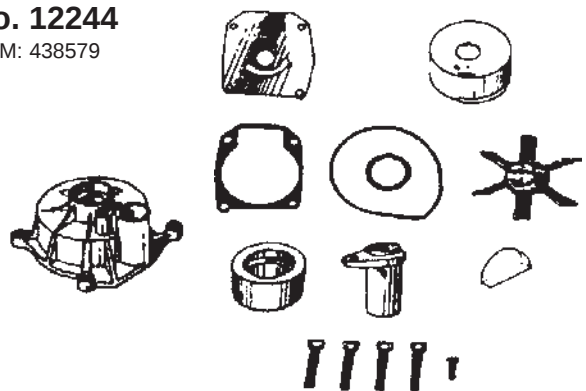


Johnson / Evinrude

WATER PUMP KITS 2 & 3-CYLINDER LOOPCHARGED

No. 12244

OEM: 438579



Fits (1974-1978) 70 and 75 HP 3-Cyl. loopcharged engines with the large gearcase. Large water pump with half-moon key impeller.

No. 22360

SCREW

OEM: 331979

Kit Contains: 4



No. 89595

KEY

OEM: 308928

No. 22320

SCREW

OEM: 908158

Kit Contains: 2



No. 34330

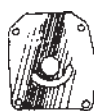
GASKET

OEM: 319586

No. 12950

TUBE GUIDE

OEM: 319276



No. 12550

WEAR PLATE

OEM: 341038

No. 86490

GROMMET

OEM: 314008



No. 33150

GASKET

OEM: 336530

No. 12400

PUMP HOUSING

OEM: 438543



No. 86491

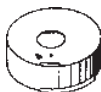
GROMMET

OEM: 315748

No. 12815

PUMP CUP

OEM: 340619



No. 81140

O-RING

OEM: 326649



No. 89940

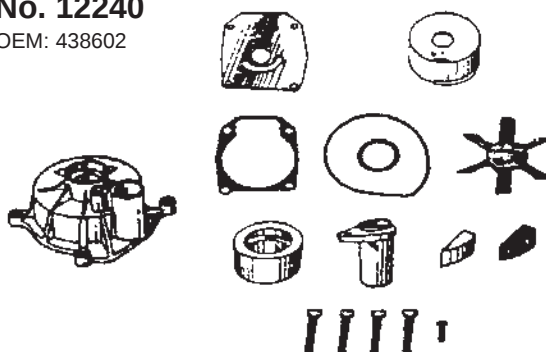
IMPELLER

OEM: 382547



No. 12240

OEM: 438602



Fits (1979-2005) 40-60 HP 2-Cyl. loopcharged engines with the large gearcase. Fits (1979-1985) 65, 70 and 75 HP 3-Cyl. loopcharged engines with the large gearcase. Large water pump with the plastic wedge key impeller.

No. 22360

SCREW

OEM: 302325

Kit Contains: 4



No. 89591

KEY - WHITE

OEM: 331901

No. 22320

SCREW

OEM: 908158

Kit Contains: 2



No. 89592

KEY - BLACK

OEM: 334897

No. 12950

TUBE GUIDE

OEM: 319276



No. 86570

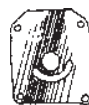
SEAL

OEM: 324981

No. 86490

GROMMET

OEM: 314008



No. 12550

WEAR PLATE

OEM: 341038

No. 12400

PUMP HOUSING

OEM: 438543



No. 33150

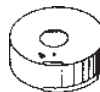
GASKET

OEM: 336530

No. 12815

PUMP CUP

OEM: 340619



No. 86491

GROMMET

OEM: 341732

No. 81140

O-RING

OEM: 326649



No. 89710

IMPELLER

OEM: 396725



Johnson / Evinrude

WATER PUMP HOUSINGS V4/V6/V8

Water Pump Housing Identification V4 (1977-2006), V6 (1976-2006), V8 (All Years)

There are two Johnson / Evinrude water pump housings for the above models. The housings are identical except for a small spray hole that shoots cooling water on the exhaust pipe inside the intermediate housing. The spray hole is used on the 25" long shaft and 30" extra long shaft outboards. The standard 20" shaft outboard doesn't need the spray hole. When in doubt, use the housing No. 12430 with the spray hole.

No. 12430

WATER PUMP HOUSING
W/ SPRAY HOLE
OEM: 435990



Spray Hole

No. 12395

WATER PUMP HOUSING
W/OUT SPRAY HOLE
OEM: 435959



No Spray Hole

Johnson / Evinrude

WATER PUMP IMPELLERS V4/V6/V8

Water Pump Impeller Identification V4/V6/V8

There have been only four different water pump impellers used in the 1958-2006 V4, V6 and V8 Johnson / Evinrude 2-Stroke outboard motors.

The 1958-1968 V4 engines are identified by the thru-cavitation plate exhaust gear housings. The impeller number is GLM No. 89470.

The 1969-1972 V4 engines are identified by the thru-prop exhaust gear housings with electric / hydraulic shift. They are shifted electronically with an electric shift control box (only one mechanical cable running to the engine, a throttle cable). The impeller fits on a .750 inch diameter shaft and is held in place with a half-moon key. The impeller number is GLM No. 89612.

1973-1978 V4 and V6 engines use an impeller that fits on a .875 inch diameter shaft and is held in place with a half-moon key. The impeller number is GLM No. 89680.

1979-2006 V4, V6 and V8 engines use an impeller that fits on a .875 inch diameter shaft and is held in place with a white plastic wedge key. The impeller number is GLM No. 89570.

No. 89470

OEM: 377992
(1958-1968) V4
Fits Lower Gearcases w/
Thru-Cavitation Plate Exhaust
Outside ø: 4.20"
Inside ø: .750"



*No. 89595

KEY - STAINLESS STEEL HALF-MOON
OEM: 308928



* Order Separately

No. 89680

OEM: 777212
(1973-1978) V4, (1976-1978) V6
Fits Mechanical / Hydraulic Shift
Lower Gearcases
Outside ø: 3.500"
Inside ø: .875"



*No. 89595

KEY - STAINLESS STEEL HALF-MOON
OEM: 308928



* Order Separately

No. 89612

OEM: 385072
(1969-1972) V4
Fits Electric / Hydraulic Shift
Lower Gearcases w/
Thru-Prop Exhaust
Outside ø: 3.500"
Inside ø: .750"



*No. 89595

KEY - STAINLESS STEEL HALF-MOON
OEM: 308928



* Order Separately

No. 89570

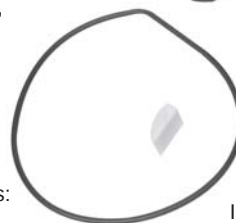
OEM: 5001593
(1979-2006) V4/V6/V8
Fits Mechanical Shift
Lower Gearcases
Outside ø: 3.50"
Inside ø: .875"



Impeller includes:

No. 89590

KEY - WHITE PLASTIC WEDGE
OEM: 331107



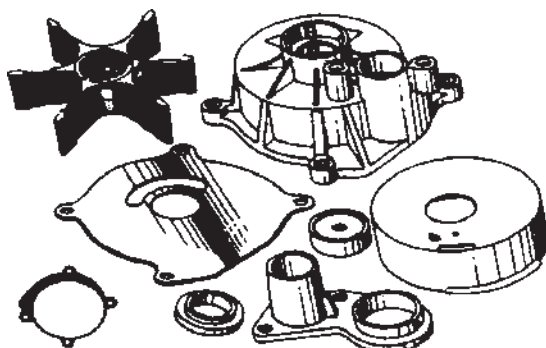
Impeller also includes:
No. 81160 - O-ring
No. 82129 - O-ring
No. 86660 - Seal

Johnson / Evinrude

WATER PUMP KITS V4/V6/V8

No. 12101

OEM: 395073



Fits (1977-1978) V4 engines with mechanical/hydraulic shift.
Fits (1976-1978) V6 engines with mechanical/hydraulic shift.
Half-moon key impeller.

No. 81160

O-RING

OEM: 310585



No. 82120

O-RING

OEM: 302035

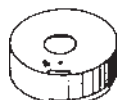


No. 22370

SCREW

OEM: 306643

Kit Contains: 2



No. 12811

PUMP CUP

OEM: 338486

No. 86480

COVER

GROMMET

OEM: 320943



No. 89680

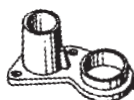
IMPELLER

OEM: 389642

No. 12570

COVER

OEM: 338893



No. 86660

SEAL

OEM: 331353

No. 22360

SCREW

OEM: 302325

Kit Contains: 4



No. 12580

WEAR PLATE

OEM: 338485

No. 86490

WATER TUBE

GROMMET

OEM: 314008



No. 33730

GASKET

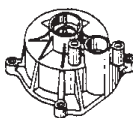
OEM: 338484

No. 12430

PUMP HOUSING

W/ SPRAY HOLE

OEM: 435990



No. 86500

SHIFT ROD

GROMMET

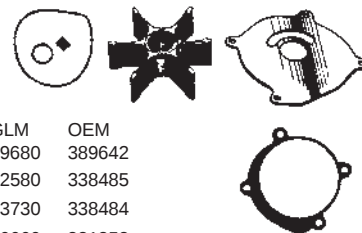
OEM: 321008

Water Pump Impeller Kit

No. 12105

OEM: N/A

V4/V6 Before 1978



Kit Contains:

QTY	ITEM	GLM	OEM
1	Impeller	89680	389642
1	Wear Plate	12580	338485
1	Gasket	33730	338484
1	Seal	86660	331353
1	O-ring	81160	310585

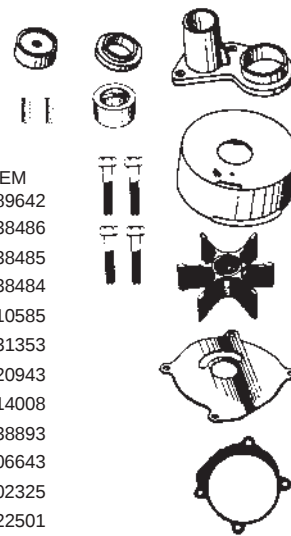
Water Pump Kit w/o Housing

No. 12072

W/O HOUSING

OEM: N/A

V4/V6 Before 1978



Kit Contains:

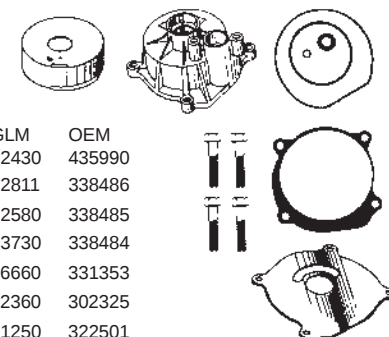
QTY	ITEM	GLM	OEM
1	Impeller	89680	389642
1	Pump Cup	12811	338486
1	Wear Plate	12580	338485
1	Gasket	33730	338484
1	O-ring	81160	310585
1	Seal	86660	331353
1	Cvr Grommet	86480	320943
1	Tube Grommet	86490	314008
1	Cover	12570	338893
2	Screws	22370	306643
4	Screws	22360	302325
1	O-ring	81250	322501
1	ShiftRod Grommet	86500	321008

Water Pump Housing Kit

No. 12103

OEM: 395072

Most V4/V6/V8



Kit Contains:

QTY	ITEM	GLM	OEM
1	Pump Hsg.	12430	435990
1	Pump Cup	12811	338486
1	Wear Plate	12580	338485
1	Gasket	33730	338484
1	Seal	86660	331353
4	Screws	22360	302325
1	O-ring	81250	322501

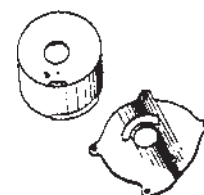
Pump Cup & Plate Assembly

No. 12880

CUP & PLATE ASSY.

OEM: 435027

V4/V6/V8



Kit Contains:

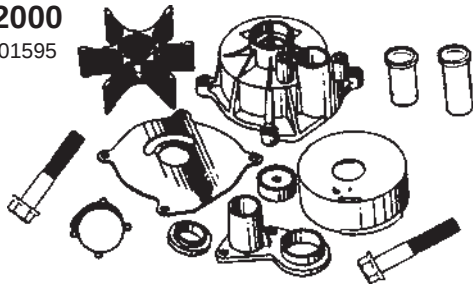
QTY	ITEM	GLM	OEM
1	Pump Cup	12811	338486
1	Wear Plate	12580	338485

Johnson / Evinrude

WATER PUMP KITS V4/V6/V8

No. 12000

OEM: 5001595



Fits (1979-2006) with V4/V6/V8 engines with 20" shaft.
Plastic wedge key impeller.

Water Pump Impeller Kit

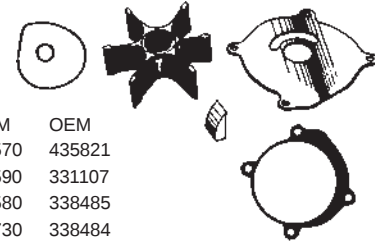
No. 12106

OEM: N/A

V4/V6/V8 After 1979

Kit Contains:

QTY	ITEM	GLM	OEM
1	Impeller	89570	435821
1	Key	89590	331107
1	Wear Plate	12580	338485
1	Gasket	33730	338484
1	Seal	86660	331353
1	O-ring	81160	310585



No. 12828

GUIDE TUBE-LONG

OEM: 338667



No. 82120

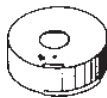
O-RING

OEM: 302035

No. 12827

GUIDE TUBE-SHORT

OEM: 338636



No. 12811

PUMP CUP

OEM: 338486

No. 81160

O-RING

OEM: 310585



No. 89570

IMPELLER

OEM: 5001593

No. 86495

GROMMET

OEM: 338601



No. 89590

KEY

OEM: 331107

No. 86480

COVER GROMMET

OEM: 320943



No. 81250

O-RING

OEM: 331188

No. 22370

SCREW

OEM: 306643

Kit Contains: 2



No. 86660

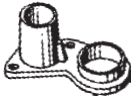
SEAL

OEM: 331353

No. 12570

COVER

OEM: 338893



No. 12580

WEAR PLATE

OEM: 338485

No. 22360

SCREW

OEM: 302325

Kit Contains: 4



No. 33730

GASKET

OEM: 338484

No. 86490

WATER TUBE

GROMMET

OEM: 314008



No. 86500

SHIFT ROD

GROMMET

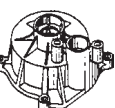
OEM: 321008

No. 12430

PUMP HOUSING

W/ SPRAY HOLE

OEM: 435990



Water Pump Kit w/o Housing

No. 12104

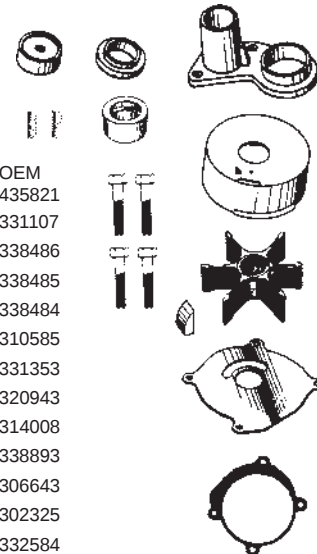
WITHOUT HOUSING

OEM: N/A

V4/V6/V8 After 1979

Kit Contains:

QTY	ITEM	GLM	OEM
1	Impeller	89570	435821
1	Key	89590	331107
1	Pump Cup	12811	338486
1	Wear Plate	12580	338485
1	Gasket	33730	338484
1	O-ring	81160	310585
1	Seal	86660	331353
1	Cvr. Grommet	86480	320943
1	Tube Grommet	86490	314008
1	Cover	12570	338893
2	Screws	22370	306643
4	Screws	22360	302325
1	O-ring	80100	332584
1	ShiftRod Grommet	86500	321008



Water Pump Housing Kit

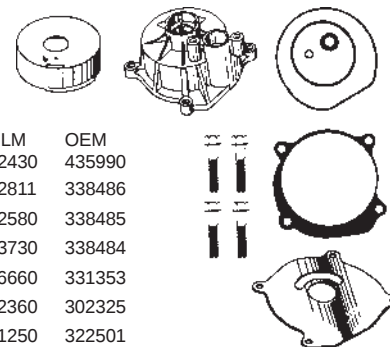
No. 12103

OEM: 395072

Most V4/V6/V8

Kit Contains:

QTY	ITEM	GLM	OEM
1	Pump Hsg.	12430	435990
1	Pump Cup	12811	338486
1	Wear Plate	12580	338485
1	Gasket	33730	338484
1	Seal	86660	331353
4	Screws	22360	302325
1	O-ring	81250	322501



Pump Cup & Plate Assembly

No. 12880

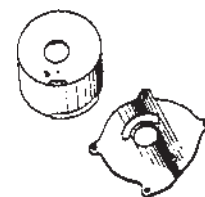
CUP & PLATE ASSY.

OEM: 435027

Most V4/V6/V8

Kit Contains:

QTY	ITEM	GLM	OEM
1	Pump Cup	12811	338486
1	Wear Plate	12580	338485

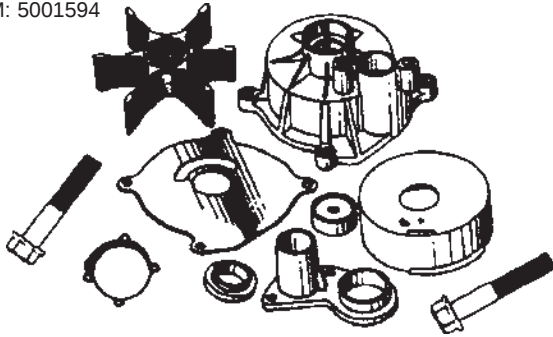


Johnson / Evinrude

WATER PUMP KITS V4/V6/V8

No. 12102

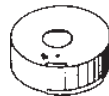
OEM: 5001594



Fits (1979-2006) with V4/V6/V8 engines with 25" and 30" shaft.
Plastic wedge key impeller.

No. 81160

O-RING
OEM: 310585



No. 12811

PUMP CUP
OEM: 338486

No. 22370

SCREW
OEM: 306643
Kit Contains: 2

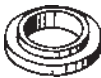


No. 89570

IMPELLER
OEM: 5001593

No. 86480

COVER
GROMMET
OEM: 320943

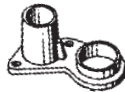


No. 89590

KEY
OEM: 331107

No. 12570

COVER
OEM: 338893



No. 81250

O-RING
OEM: 331188

No. 22360

SCREW
OEM: 302325
Kit Contains: 4



No. 86660

SEAL
OEM: 331353

No. 86490

WATER TUBE
GROMMET
OEM: 314008

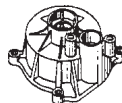


No. 12580

WEAR PLATE
OEM: 338485

No. 12395

PUMP HOUSING
W/OUT SPRAY HOLE
OEM: 435959



No. 33730

GASKET
OEM: 338484

No. 82120

O-RING
OEM: 302035



No. 86500

SHIFT ROD
GROMMET
OEM: 321008

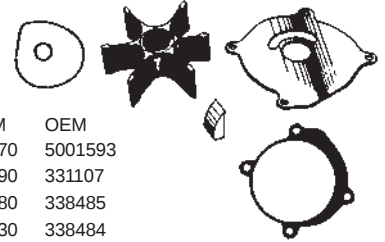
Water Pump Impeller Kit

No. 12106

OEM: N/A
V4/V6/V8 After 1979

Kit Contains:

QTY	ITEM	GLM	OEM
1	Impeller	89570	5001593
1	Key	89590	331107
1	Wear Plate	12580	338485
1	Gasket	33730	338484
1	Seal	86660	331353
1	O-ring	81160	310585



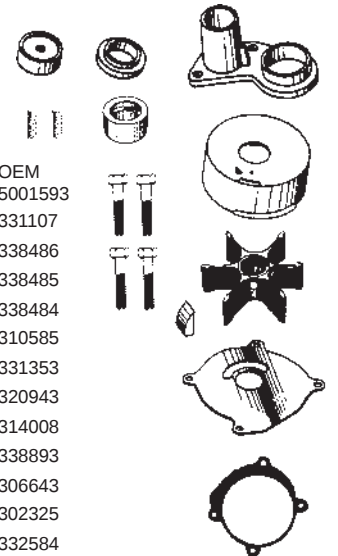
Water Pump Kit w/o Housing

No. 12104

W/O HOUSING
OEM: N/A
V4/V6/V8 After 1979

Kit Contains:

QTY	ITEM	GLM	OEM
1	Impeller	89570	5001593
1	Key	89590	331107
1	Pump Cup	12811	338486
1	Wear Plate	12580	338485
1	Gasket	33730	338484
1	O-ring	81160	310585
1	Seal	86660	331353
1	Cvr Grommet	86480	320943
1	Tube Grommet	86490	314008
1	Cover	12570	338893
2	Screws	22370	306643
4	Screws	22360	302325
1	O-ring	80100	332584
1	ShiftRod Grommet	86500	321008



Water Pump Housing Kit

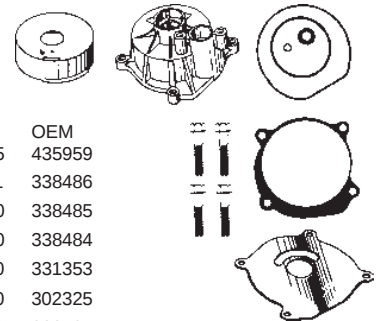
No. 12073

OEM: N/A
Most V4/V6/V8



Kit Contains:

QTY	ITEM	GLM	OEM
1	Pump Hsg.	12395	435959
1	Pump Cup	12811	338486
1	Wear Plate	12580	338485
1	Gasket	33730	338484
1	Seal	86660	331353
4	Screws	22360	302325
1	O-ring	81250	322501



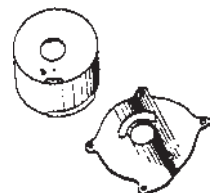
Pump Cup & Plate Assembly

No. 12880

CUP & PLATE ASSY.
OEM: 435027

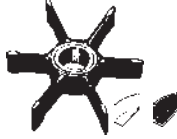
Kit Contains:

QTY	ITEM	GLM	OEM
1	Pump Cup	12811	338486
1	Wear Plate	12580	338485



Johnson / Evinrude

WATER PUMP IMPELLERS

No. 89490 IMPELLER OEM: 387361  1.5, 2, 4 HP	No. 89580 IMPELLER OEM: 434424  3, 4, 5, 5.5, 6, 7.5 HP	No. 89500 IMPELLER OEM: 389576, 436137  4, 4.5, 5, 6, 7.5, 8 HP	No. 89670 IMPELLER OEM: 775519, 377178  9.5 HP (1964-1973)	No. 89770 IMPELLER OEM: 386084 1974-up  8, 9.9, 15 HP
No. 89650 IMPELLER OEM: 775518  2-Cyl. Crossflow	No. 89750 IMPELLER OEM: 395289  Impeller includes: Key No. 89593 (OEM: 344470) 2-Cyl. Crossflow	No. 89660 IMPELLER OEM: 777213  2-Cyl. Crossflow	No. 89480 IMPELLER OEM: 775521  2-Cyl. Crossflow	No. 89990 IMPELLER OEM: 390286  2-Cyl. Crossflow
No. 89790 IMPELLER OEM: 437059, 432941  Impeller includes: O-ring No. 81250 (OEM: 331188) 2-Cyl. Loopcharged	No. 89690 IMPELLER OEM: 777129, 389589  2-Cyl. Loopcharged	No. 89780 IMPELLER OEM: 777214, 396809  Impeller includes: Key No. 89593 (OEM: 344470) 2 & 3-Cyl. Loopcharged	No. 89710 IMPELLER OEM: 396725  Impeller includes: 2 Keys No. 89591 (OEM: 331901) No. 89592 (OEM: 334897) 2 & 3-Cyl. Loopcharged	No. 89940 IMPELLER OEM: 382547  3-Cyl. Loopcharged
No. 89470 IMPELLER OEM: 377992  V4 (1958-1968)	No. 89612 IMPELLER OEM: 385072  V4 (1969-1972)	No. 89680 IMPELLER OEM: 777212  V4/V6 (1973-1978)	No. 89570 IMPELLER OEM: 5001593  Impeller includes: No. 89590 (OEM: 331107) No. 81160 (OEM: 310585) No. 82129 (OEM: N/A) No. 86660 (OEM: 331353) V4/V6/V8 (1979-2006)	No. 89720 IMPELLER OEM: 300583 No. 89730 IMPELLER OEM: 300591 
No. 89594 KEY - PIN OEM: 300611  Stainless Steel	No. 89596 KEY - PIN OEM: 300771  Stainless Steel	No. 89595 KEY - HALF-MOON OEM: 308928  Stainless Steel	No. 89591 KEY - WEDGE OEM: 331901 No. 89593 KEY - WEDGE OEM: 344470 No. 89590 KEY - WEDGE OEM: 331107  Plastic White	No. 89592 KEY - WEDGE OEM: 334897  Plastic Black

Johnson / Evinrude

WATER PUMP WEAR PLATES

No. 12600

WEAR PLATE
OEM: 203132



No. 12555

WEAR PLATE
OEM: 324640



No. 12610

WEAR PLATE
OEM: 318995



8, 9.9, 15 HP

No. 12630

WEAR PLATE
OEM: 328755



2-Cylinder Crossflow, 3-Cyl. Loopcharged w/ Thru-Prop Exhaust

No. 12640

WEAR PLATE
OEM: 329391



1 & 2-Cylinder Crossflow w/ Thru-Cavitation Plate Exhaust

No. 12564

WEAR PLATE
OEM: 325398



40 HP 2-Cylinder Crossflow

No. 12550

WEAR PLATE LARGE HSG.
OEM: 341038



2-Cyl. Loopcharged, 3-Cylinder

No. 12620

WEAR PLATE SMALL HSG.
OEM: 320981



2-Cylinder Loopcharged

No. 12580

WEAR PLATE
OEM: 338485



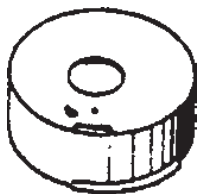
V4, V6 & V8

Johnson / Evinrude

WATER PUMP CUPS

No. 12818

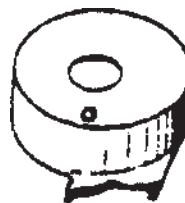
PUMP CUP
OEM: 324641



4-8 HP

No. 12813

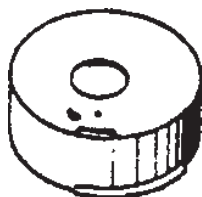
PUMP CUP
OEM: 324097



8, 9.9, 15 HP

No. 12812

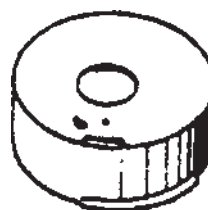
PUMP CUP
OEM: 328751



18-35 HP 2-Cylinder Crossflow, 3-Cylinder

No. 12816

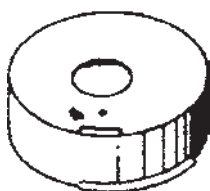
PUMP CUP
OEM: 325397



40 HP 2-Cylinder Crossflow

No. 12815

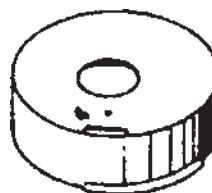
PUMP CUP
OEM: 340619



2-Cyl. Loopcharged, 3-Cylinder

No. 12814

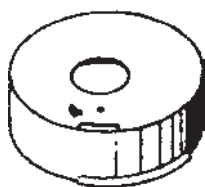
PUMP CUP
OEM: 320775 + 320776



2-Cylinder Loopcharged

No. 12811

PUMP CUP
OEM: 338486

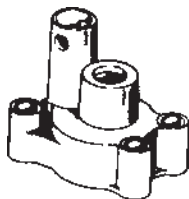


V4, V6 & V8

Johnson / Evinrude

WATER PUMP HOUSINGS

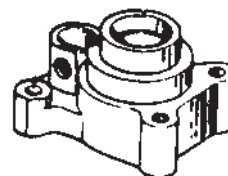
No. 12436
PUMP HOUSING
OEM: 389577



4-8 HP

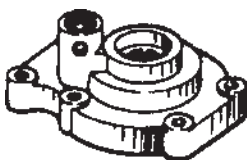


No. 12460
PUMP HOUSING
OEM: 435390



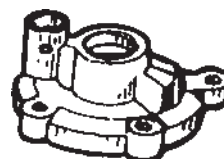
8, 9.9, 15 HP

No. 12470
PUMP HOUSING
W/ BRASS BUSHING
OEM: 393632



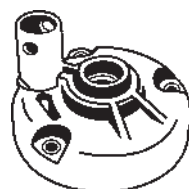
20, 25, 35 HP w/ Thru-Prop Exhaust

No. 12440
PUMP HOUSING
OEM: 330560



18, 25, 28 HP w/ Thru-Cavitation Plate Exhaust

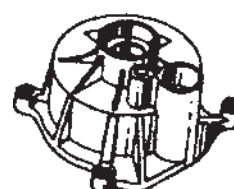
No. 12474
PUMP HOUSING
OEM: 390613



40 HP 2-Cylinder Crossflow



No. 12480
PUMP HOUSING
OEM: 438544



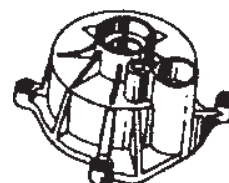
2-Cylinder Loopcharged

No. 12450
PUMP HOUSING
OEM: 384087



2-Cylinder Loopcharged

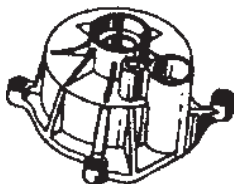
No. 12482
PUMP HOUSING
OEM: 438545



2-Cylinder Loopcharged

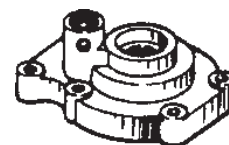


No. 12400
PUMP HOUSING
OEM: 438543



2-Cylinder Loopcharged, 3-Cylinder

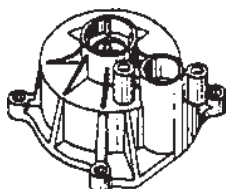
No. 12472
PUMP HOUSING
OEM: 339720



3-Cylinder

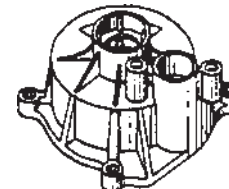


No. 12430
PUMP HOUSING
W/ SPRAY HOLE
OEM: 435990



V4, V6 & V8 - 25" & 30"

No. 12395
PUMP HOUSING
W/O SPRAY HOLE
OEM: 435959



V4, V6 & V8 - 20"

Johnson / Evinrude

WATER PUMP COMPONENTS

Water Pump Gaskets

No. 34200

IMPELLER HOUSING GASKET
OEM: 309204



Electric Shift

No. 34510

PLATE TO HOUSING GASKET
OEM: 325535



35 HP Water Pump

Grommet

Seals

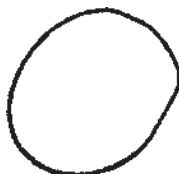
No. 86140

GROMMET
OEM: 305762



No. 86130

PLATE SEAL
OEM: 321120

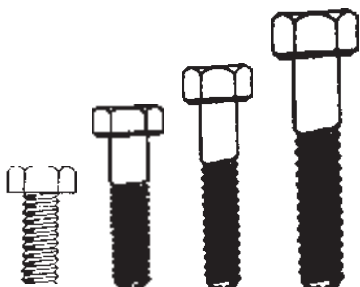


No. 86540

PLATE SEAL
OEM: 332000



Screws



No. 22360

SCREW 1/4-20 X1
OEM: 302325

No. 22370

SCREW #10-24 X 1/2
OEM: 306643

No. 22380

SCREW 1/4-20 X 1-7/8
OEM: 323626

No. 22321

SCREW 1/4-20 X 1-1/8
OEM: 324334

No. 22323

SCREW 1/4-20 X1-1/8
OEM: 331979

No. 22324

SCREW 1/4-20 X 2
OEM: 331980

No. 22320

SCREW 1/4-20 X 1/2
OEM: 908158

No. 22325

SCREW 1/4-20 X 1
OEM: 909533

Johnson / Evinrude

WATER PUMP KITS APPLICATIONS							
Outboard HP	Model Year	Impeller	Wear Plate	Pump Cup	Pump Housing	Service Kit w/o Hsg	Complete Water Pump Kit
1.5 HP - 15 HP							
1.5	1968-70	89490	-	-	-	-	-
2	1971-88	89490	-	-	-	-	-
3	1952-68	89580	12600	-	-	12108	-
3, 4	1991-96	-	-	12818	-	-	-
4	1969-72	89580	12600	-	-	12108	-
4 (90)	1973-80	89490	-	-	-	-	-
4 (110)	1973-82	89580	12600	-	-	12108	-
4 (90)	1981-90	89500	-	12818	-	-	-
4 Deluxe	1985-88	89500	12555	12818	12436	12255	12065
4 Deluxe	1989-96	-	12555	12818	-	-	-
4.5	1980-84	89500	12555	12818	12436	12255	12065
5	1965-68	89580	12600	-	-	12108	-
5	1986-90	89500	12555	12818	12436	12255	12065
5 4-Stroke	1998-	89500	12555	12818	12436	12255	12065
5.5	1956-64	89580	12600	-	-	-	-
6	1965-79	89580	12600	-	-	-	-
6	1984-96	89500	12555	12818	12436	12255	12065
6 4-Stroke	1998-	89500	12555	12818	12436	12255	12065
7.5	1954-58	89580	12600	-	-	12108	-
7.5	1980-83	89500	12555	12818	12436	12255	12065
8	1984-96	89500	12555	12818	12436	12255	12065
8 4-Stroke	1995-	89770	12610	12813	12460	-	12050
9.5	1964-73	89670	-	-	-	-	-
9.9 2-Stroke	1974-96	89770	12610	12813	12460	-	12050
9.9 4-Stroke	1995-01	89770	12610	12813	12460	-	12050
10	1956-63	89650	-	-	-	-	-
15	1953-56	89650	-	-	-	-	-
15 2-Stroke	1974-96	89770	12610	12813	12460	-	12050
15 4-Stroke	1995-01	89770	12610	12813	12460	-	12050
18-40 HP 2-Cylinder Crossflow							
18	1957-73	89650	-	-	-	-	-
18	1997-98	89750	12640	12812	12440	-	12060
20	1966-67	89650	-	-	-	-	-
20 Thru-Prop	1985-98	89750	12630	12812	12470	-	12070
25	1969-78	89650	-	-	-	-	-
25	1969-78	89650	-	-	-	-	-
25	1979-05	89750	12640	12812	12440	-	12060
25 Thru-Prop	1985-05	89750	12640	12812	12470	-	12070
28	1962-64	89480	-	-	-	-	-
28	1986-98	89750	12640	12812	12440	-	12060
30	1956	89480	-	-	-	-	-
33	1965-70	89480	-	-	-	-	-
35	1957-58	89480	-	-	-	-	-
35 w. Therm.	1958-59	89660	-	-	-	-	-
35 Thru-Prop	1980-96	89750	12630	12812	12470	-	12070
40	1960-70	89660	-	-	-	-	-
40	1971-73	89480	-	-	-	-	-
40	1974-76	89990	12564	12816	12474	-	12247
40	1981-87	89990	12564	12816	12474	-	12247

Johnson / Evinrude

WATER PUMP KITS APPLICATIONS

Outboard HP	Model Year	Impeller	Wear Plate	Pump Cup	Pump Housing	Service Kit w/o Hsg	Complete Water Pump Kit
40-60 HP 2-Cylinder Loopcharged							
40 Small Housing	1984-88	89780	12620	12814	12450	-	12210
40 Small Housing	1989-98	89790	12550	12815	12480	-	12245
40 Comm. Small Housing	1993-94	89780	12620	12815	12480	-	12210
40 Large Housing	1995-05	89710	12550	12815	12482	12252	12235
45 Comm. Small Housing	1986-94	89780	12620	12814	12450	-	12210
45 Comm. Large Housing	1995-05	89710	12550	12815	12482	12252	12235
48 Small Housing	1987-88	89780	12620	12814	12450	-	12210
48 Small Housing	1989-98	89790	12550	12815	12480	-	12245
50 Small Housing	1971-78	89660	12620	12814	12450	-	12232
50 Small Housing	1979-85	89690	12620	12814	12450	-	-
50 Small Housing	1986-88	89780	12620	12814	12450	-	12210
50 Small Housing	1989-98	89790	12550	12815	12480	-	12245
55 Comm. Small Housing	1986-94	89780	12620	12814	12450	-	12210
55 Large Housing	1995-05	89710	12550	12815	12482	12252	12235
60 Small Housing	1980-85	89690	12620	12814	12450	-	12210
60 Large Housing	1986-88	89710	12550	12815	12400	12252	12240
3-Cylinder							
25, 35	1995-01	89750	12630	12812	12472	-	12233
55	1968-69	89940	-	-	-	-	-
60	1970-71	89940	-	-	-	-	-
60	1989-01	89710	12550	12815	12400	12252	12246
60 4-stroke	1998-Up	89710	12550	12815	12400	12252	12246
65	1972-73	89940	-	-	-	-	-
65	1979-01	89710	12550	12815	12400	12252	12246
70	1974-78	89940	12550	12815	12400	-	12244
70	1979-94	89710	12550	12815	12400	12252	12246
70 4-stroke	1998-Up	89710	12550	12815	12400	12252	12246
75	1974-78	89940	12550	12815	12400	-	12244
75	1979-88	89710	12550	12815	12400	12252	12246
V4							
All V4	1958-68	89470	-	-	-	-	-
85	1969-72	89612	-	-	-	-	-
85	1973-77	89680	-	-	-	-	-
85 25" Shaft	1977	89680	12580	12811	12430	12072	12101
85	1978	89680	12580	12811	12430	12072	12101
85	1979-80	89570	12580	12811	12430	12104	12102
90	1981-94	89570	12580	12811	12430	12104	12102
90 20" Shaft	1995-03	89570	12580	12811	12430	12104	12102
90 25" Shaft	1995-03	89570	12580	12811	12395	12104	12000
100	1971-72	89612	-	-	-	-	-
100	1979-80	89570	12580	12811	12430	12072	12101
100	1984-97	89570	12580	12811	12430	12104	12102
100 20" Shaft	1998-05	89570	12580	12811	12430	12104	12102
100 25" Shaft	1998-05	89570	12580	12811	12395	12104	12000
105	1998-01	89570	12580	12811	12395	12104	12000
115	1973-77	89680	-	-	-	-	-
115 25" Shaft	1977	89680	12580	12811	12430	12072	12101
115	1978	89680	12580	12811	12430	12072	12101
115	1979-94	89570	12580	12811	12430	12104	12102
115 20" Shaft	1995-06	89570	12580	12811	12430	12104	12102
115 25" Shaft	1995-06	89570	12580	12811	12395	12104	12000

Johnson / Evinrude

WATER PUMP KITS APPLICATIONS							
Outboard HP	Model Year	Impeller	Wear Plate	Pump Cup	Pump Housing	Service Kit w/o Hsg	Complete Water Pump Kit
V4 Continued							
120 20" Shaft	1985-94	89570	12580	12811	12430	12104	12102
120 25" Shaft	1985-94	89570	12580	12811	12395	12104	12000
125	1971-72	89612	-	-	-	-	-
130 20" Shaft	1995-98	89570	12580	12811	12430	12104	12102
130 25" Shaft	1995-98	89570	12580	12811	12395	12104	12000
135	1973-76	89680	-	-	-	-	-
135 20" Shaft	2000-06	89570	12580	12811	12430	12104	12102
135 25" Shaft	2000-06	89570	12580	12811	12395	12104	12000
140	1977-78	89680	12580	12811	12430	12072	12101
140	1979-84	89570	12580	12811	12430	12104	12102
140 20" Shaft	1985-94	89570	12580	12811	12430	12104	12102
140 25" Shaft	1985-94	89570	12580	12811	12395	12104	12000
V6							
150	1978	89680	12580	12811	12430	12072	12101
150	1979-92	89570	12580	12811	12430	12104	12102
150 20" Shaft	1993-06	89570	12580	12811	12430	12104	12102
150 25" Shaft	1993-06	89570	12580	12811	12395	12104	12000
175	1977-78	89680	12580	12811	12430	12072	12101
175	1979-92	89570	12580	12811	12430	12104	12102
175 20" Shaft	1993-06	89570	12580	12811	12430	12104	12102
175 25" Shaft	1993-06	89570	12580	12811	12395	12104	12000
185	1984-92	89570	12580	12811	12430	12104	12102
185 20" Shaft	1993-94	89570	12580	12811	12430	12104	12102
185 25" shaft	1993-94	89570	12580	12811	12395	12104	12000
200	1976-78	89680	12580	12811	12430	12072	12101
200	1979-92	89570	12580	12811	12430	12104	12102
200 20" Shaft	1993-06	89570	12580	12811	12430	12104	12102
200 25" 30"	1993-06	89570	12580	12811	12395	12104	12000
225	1986-92	89570	12580	12811	12430	12104	12102
225 20" Shaft	1993-06	89570	12580	12811	12430	12104	12102
225 25" 30"	1993-06	89570	12580	12811	12395	12104	12000
235	1978	89680	12580	12811	12430	12072	12101
235	1979-85	89570	12580	12811	12430	12104	12102
250 20" Shaft	2006	89570	12580	12811	12430	12104	12102
250 25" 30"	2006	89570	12580	12811	12395	12104	12000
V8							
250	1991-92	89570	12580	12811	12430	12104	12102
250 20" Shaft	1993-98	89570	12580	12811	12430	12104	12102
250 25" 30"	1993-98	89570	12580	12811	12395	12104	12000
275	1985-88	89570	12580	12811	12430	12104	12102
300	1985-92	89570	12580	12811	12430	12104	12102
300 20" Shaft	1993-95	89570	12580	12811	12430	12104	12102
300 25" 30"	1993-95	89570	12580	12811	12395	12104	12000



Section 8

Johnson / Evinrude Prop Hardware, Anodes, Tools

<i>Prop Hardware - Most 2 & 3-Cyl. (1972-Up) - Small Gearcase</i>	<i>102</i>
<i>Prop Hardware - 2 & 3-Cyl. (1975-Up) - Large Gearcase</i>	<i>102</i>
<i>Prop Hardware - V4 (1973-Up) - Small Gearcase</i>	<i>102</i>
<i>Prop Hardware - V4/V6 "O" Type (1976-1990) - Large Gearcase</i>	<i>103</i>
<i>Prop Hardware - V4/V6/V8 "O" Type (1991-Up) - Large Gearcase</i>	<i>103</i>
<i>Propeller Hardware</i>	<i>104</i>
<i>Propeller Kits & Hardware Applications</i>	<i>104-105</i>
<i>Aluminum Anodes & Anode Kits</i>	<i>106</i>
<i>Aluminum Prop Nut Anode Kits & Replacement Anodes</i>	<i>106</i>
<i>Magnesium Anodes & Anode Kits</i>	<i>107</i>
<i>Magnesium Prop Nut Anode Kits & Replacement Anodes</i>	<i>107</i>
<i>Service Tools</i>	<i>108</i>
<i>Special Tools</i>	<i>108</i>

Johnson / Evinrude

PROP HARDWARE - MOST 2 & 3-CYL. (1972-UP) - SMALL GEARCASE

(See Application Guide)

No. 22120

COTTER PIN
OEM: 314502



No. 22150

NUT - 5/8" NC 11
OEM: 314503



No. 22250

13 SPLINE WASHER
OEM: 315810



No. 22240

THRUST WASHER
15/32" THICK
OEM: 320305



No. 22340

KIT W/O THRUST WASHER
OEM: 175267



No. 22245

KIT W/ THRUST WASHER
OEM: 386866



PROP HARDWARE - 2 & 3-CYL. (1975-UP) - LARGE GEARCASE

PROP HARDWARE - V4 (1973-UP) - SMALL GEARCASE

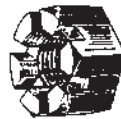
No. 22120

COTTER PIN
OEM: 314502



No. 22150

NUT - 5/8" NC 11
OEM: 314503



No. 22250

13 SPLINE WASHER
OEM: 315810



No. 22230

THRUST WASHER
19/32" THICK
OEM: 127084



No. 22340

KIT W/O THRUST WASHER
OEM: 175267



No. 22235

KIT W/ THRUST WASHER
OEM: 5005034



Johnson / Evinrude

PROP HARDWARE - V4/V6 "O" TYPE (1976-1990) - LARGE GEARCASE

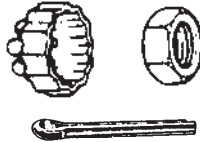
No. 22142

COTTER PIN
OEM: 3852056



No. 22185

NUT KIT - 3/4" NF 16
OEM: 398042
Comes w/ pin No. 22142



No. 22190

15 SPLINE WASHER
OEM: 320570



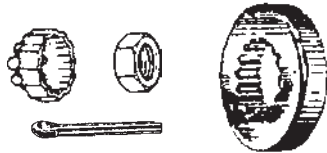
No. 22220

THRUST WASHER
17/32" THICK
OEM: 333592



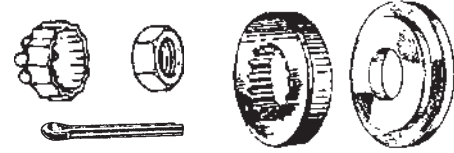
No. 22200

KIT W/O THRUST WASHER
OEM: 175266



No. 22225

KIT W/ THRUST WASHER
OEM: 434153



PROP HARDWARE - V4/V6/V8 "O" TYPE (1991-UP) - LARGE GEARCASE

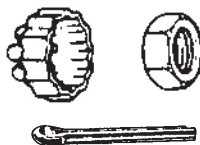
No. 22142

COTTER PIN
OEM: 3852056



No. 22185

NUT KIT - 3/4" NF 16
OEM: 398042
Comes w/ pin No. 22142



No. 22190

15 SPLINE WASHER
OEM: 320570



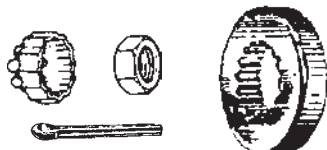
No. 22221

THRUST WASHER
3/4" THICK
OEM: 3852020



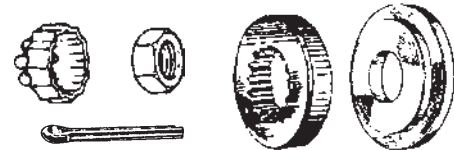
No. 22200

KIT W/O THRUST WASHER
OEM: 175266



No. 22186

KIT W/ THRUST WASHER
OEM: N/A



Johnson / Evinrude

PROPELLER HARDWARE

Prop Kits w/o Washers

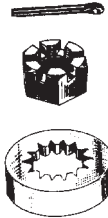
No. 22222

OEM: 175269

9.9-15 HP

Kit Contains:

GLM	OEM	ITEM
22255	323942	Spline Washer 13-Spline
22160	318971	Nut - 7/16" NC 14
22140	328522	Pin



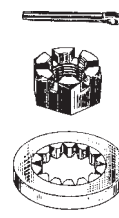
No. 22350

OEM: 175268

2-Cyl. Crossflow, 20-35 HP
(1980-2005),
Thru-Prop Exhaust

Kit Contains:

GLM	OEM	ITEM
22260	323943	Spline Washer 14-Spline
22170	319891	Nut - 1/2" NC 13
22130	320785	Pin



Prop Thrust Washers

No. 22270

OEM: 319890

3/8" Thick
Outside ø 1-3/4"



2-Cyl. Crossflow, 20-35 HP

No. 22240

OEM: 320305

15/32" Thick
Outside ø 2-1/8"



No. 22241

OEM: 318966

1/2" Thick
Outside ø 1-1/2"



9.9-15 HP (1974-1988)

No. 22220

OEM: 333592

17/32" Thick
Outside ø 2-7/8"



"O" Type (1969-1990)

No. 22230

OEM: 127084

19/32" Thick
Outside ø 2-9/16"



No. 22242

OEM: 334590

5/8" Thick
Outside ø 1-1/2"



9.9-15 HP (1989-Up)

No. 22221

OEM: 126870

3/4" Thick
Outside ø 2-7/8"



"O" & "M" Type (1991-Up)

Prop Spline Washers

No. 22255

OEM: 323942

13 Spline
ø 5/8" Shaft



No. 22260

OEM: 323943

14 Spline
ø 13/16" Shaft



No. 22250

OEM: 315810

13 Spline
ø 7/8" Shaft



No. 22190

OEM: 320570

15 Spline
ø 1" Shaft



Prop Nuts

No. 22160

OEM: 318971
7/16" NC 14

No. 22170

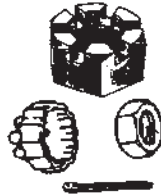
OEM: 319891
1/2" NC 13

No. 22150

OEM: 314503
5/8" NC 11

No. 22185

OEM: 398042
3/4" NF 16



Cotter Pins

No. 22100

OEM: 302804

No. 22142

OEM: 306394

No. 22110

OEM: 309955

No. 22120

OEM: 314502

No. 22130

OEM: 320785

No. 22140

OEM: 552906



PROPELLER KITS & HARDWARE APPLICATIONS

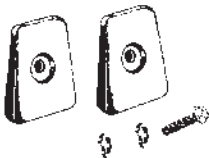
Model	Year	Thrust Washer	Spline Washer	Nut	Pin	Kit w/o T. Washer	Kit w/ T. Washer
9.9-15	1974-1988	22241	22255	22160	22140	22222	N/A
9.9-15	1989-Thru	22242	22255	22160	22140	22222	N/A
2-Cyl. Crossflow, 20-35 HP, Thru-Prop Exhaust	1980-2005	22270	22260	22170	22130	22350	-
2-Cyl. Loopcharged, 40-60 HP	1972-1985	22240	22250	22150	22120	22340	22245
2-Cyl. Loopcharged, 40-60 HP, w/ Small Gearcase	1986-1988	22240	22250	22150	22120	22340	22245
2-Cyl. Loopcharged, 40-60 HP, w/ Large Gearcase	1986-1988	22230	22250	22150	22120	22340	22235
2-Cyl. Loopcharged, 40-50 HP	1989-2005	22240	22250	22150	22120	22340	22245
2-Cyl. Loopcharged, 55 HP	1989-2005	22230	22250	22150	22120	22340	22235
3-Cyl., 65 + 70 HP	1972-1974	22240	22250	22150	22120	22340	22245
3-Cyl., 65, 70, 75 HP w/ Small Gearcase	1975-1988	22240	22250	22150	22120	22340	22245
3-Cyl., 65, 70, 75 HP w/ Large Gearcase	1975-1988	22230	22250	22150	22120	22340	22235
3-Cyl., 60, 65, 70 HP	1989-2001	22230	22250	22150	22120	22340	22235
3-Cyl., 25, 30, 35 HP	1996-2001	-	22260	22170	22130	-	-
V4, ø 7/8" 13-Spline Prop Shaft	1973-Up	22230	22250	22150	22120	22340	22235
V4, ø 1" 15-Spline Prop Shaft	1984-1990	22220	22190	22185	22142	22200	22225
V4, ø 1" 15-Spline Prop Shaft	1991-Up	22221	22190	22185	22142	22200	22186
V6/V8	1976-1990	22220	22190	22185	22142	22200	22225
V6/V8	1991-Up	22221	22190	22185	22142	22200	22186

Johnson / Evinrude

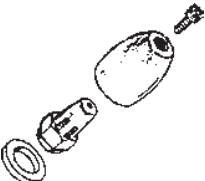
PROPELLER KITS & HARDWARE APPLICATIONS						
HP	Year	Washer	Spacer	Nut	Pin	Kit
9.9/15	1974-78	22241	22255	22160	22140	22222
9.9/15	1989 and up	22242	22255	22160	22140	22222
20	1985 and up	22270	22260	22170	22130	22350
25	1985 and up	22270	22260	22170	22130	22350
30	1985 and up	22270	22260	22170	22130	22350
35	1976 and up	22270	22260	22170	22130	22350
40	1984 and up	22240	22250	22150	22120	22340
45	1985 and up	22240	22250	22150	22120	22340
48	1987 and up	22240	22250	22150	22120	22340
50	1972-74	22230	22250	22150	22120	22340
50	1975-76	22240	22250	22150	22120	22340
50	1979	22240	22250	22150	22120	22340
50	1981	22240	22250	22150	22120	22340
50	1982 and up	22240	22250	22150	22120	22340
55	1977-79	22230	22250	22150	22120	22340
55	1981	22240	22250	22150	22120	22340
55	1983	22230	22250	22150	22120	22340
55	1985 and up	22230	22250	22150	22120	22340
60	1971	22230	22250	22150	22120	22340
60	1980 and up	22240	22250	22150	22120	22340
65	1972-73	22230	22250	22150	22120	22340
65 Comm.	1984 and up	22230	22250	22150	22120	22340
70 (15")	1979-85	22240	22250	22150	22120	22340
70 (20")	1974-94	22230	22250	22150	22120	22340
75 (15")	1975-88	22240	22250	22150	22120	22340
75 (20")	1975-87	22230	22250	22150	22120	22340
85	1971-80	22230	22250	22150	22120	22340
88	1987-94	22230	22250	22150	22120	22340
90	1981-94	22230	22250	22150	22120	22340
100	1971-72	22230	22250	22150	22120	22340
100	1979-94	22230	22250	22150	22120	22340
100 Comm.	1984 and up	22220	22190	22180/22185	22141	22200
110	1987-94	22230	22250	22150	22120	22340
115	1973-94	22230	22250	22150	22120	22340
120	1985	22220	22190	22180/22185	22141	22200
120	1986-94	22230	22250	22150	22120	22340
125	1971-72	22230	22250	22150	22120	22340
135	1973-76	22230	22250	22150	22120	22340
140	1977-84	22230	22250	22150	22120	22340
140	1985	22220	22190	22180/22185	22141	22200
140	1986-94	22230	22250	22150	22120	22340
150	1978-90	22220	22190	22180/22185	22141	22200
150	1991 and up	22221	22190	22180/22185	22141	22200
155 Comm.	1984-90	22220	22190	22180/22185	22141	22200
155 Comm.	1991 and up	22221	22190	22180/22185	22141	22200
175	1977-90	22220	22190	22180/22185	22141	22200
175	1991 and up	22221	22190	22180/22185	22141	22200
185	1984-90	22220	22190	22180/22185	22141	22200
185	1991 and up	22221	22190	22180/22185	22141	22200
200	1986-90	22220	22190	22180/22185	22141	22200
200	1991 and up	22221	22190	22180/22185	22141	22200
225	1986-90	22220	22190	22180/22185	22141	22200
225	1991 and up	22221	22190	22180/22185	22141	22200
235	1976-90	22220	22190	22180/22185	22141	22200
275	1985-90	22220	22190	22180/22185	22141	22200
275	1991 and up	22221	22190	22180/22185	22141	22200
3.6 L	1985-90	22220	22190	22180/22185	22141	22200
300	1991 and up	22221	22190	22180/22185	22141	22200
1.6 Seadrive	1982-90	22230	22250	22150	22120	22340
2.5 L Seadrive	1984-90	22220	22190	22180/22185	22141	22200
2.6 L Seadrive	1982-90	22220	22190	22180/22185	22141	22200

Johnson / Evinrude

ALUMINUM ANODES AND ANODE KITS

No. 12695 ALUMINUM ANODE KIT OEM: 392461  NEW 50-75 HP (1982-1984) Except 55 & 65 Commercial	No. 12736 ALUMINUM ANODE OEM: 433458  Midsection for 3-Cyl.-V8 (1985-Up)	No. 12738 ALUMINUM ANODE OEM: 392462  55-75 HP (1985-2001)
No. 12696 ALUMINUM ANODE KIT OEM: 392160  NEW V4 & V6 (1982-1986)	No. 12776 ALUMINUM ANODE OEM: 436745  V4 & V6 (1982-Up)	No. 12733 ALUMINUM ANODE OEM: 392133  V4 & V6 (1982-1986)
No. 12739 ALUMINUM ANODE OEM: 433580  3-Cyl.-V6 (1991-Up)	No. 12730 ALUMINUM ANODE OEM: 173029  All Outboards	No. 12742 ALUMINUM ANODE OEM: 398873  40-50 HP (1989-Up)
No. 12762 ALUMINUM ANODE OEM: 338635  NEW 4-Stroke 9.9-15 HP (1995-2001)	No. 12737 ALUMINUM ANODE OEM: 431708  40 HP-V8 (1988-1991)	No. 12683 ALUMINUM ANODE OEM: 397768  155 HP (1987-1990), 250 HP (1991-1998)
No. 12697 ALUMINUM ANODE KIT OEM: 434029  NEW 20-35 HP (1991-Up)		No. 12761 ALUMINUM ANODE OEM: 432397  NEW 4, 6, 8 HP (1985-1990)

ALUMINUM PROP NUT ANODE KITS AND REPLACEMENT ANODES

Prop Nut Anode Kits			Aluminum	Replacement Anodes			Aluminum
GLM No.	Shaft Size	Thread Size		GLM No.	For Kit No.	Anode Size	
12727 	3/4"	1/2" NC 13		12728 	12727	Ø 1-1/4" x 1-1/2"L	
12706	7/8"	5/8" NC 11		12705	12706	Ø 1-5/8" x 2"L	
12718 	1-1/8"	3/4" NF 16		12707	12718	Ø 2" x 2-5/8"L	

GLM's Aluminum Anodes to Replace Zinc Anodes Coming Soon! Check Website for Product ETA's.

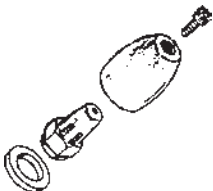


Johnson / Evinrude

MAGNESIUM ANODES AND ANODE KITS

No. 12684 MAGNESIUM ANODE KIT OEM: N/A  50-75 HP (1982-1984) Except 55 & 65 Commercial NEW	No. 12677 MAGNESIUM ANODE OEM: N/A  Midsection for 3-Cyl.-V8 (1985-Up) NEW	No. 12686 MAGNESIUM ANODE OEM: N/A  55-75 HP (1985-2001) NEW	
No. 12685 MAGNESIUM ANODE KIT OEM: N/A  V4 & V6 (1982-1986) NEW	No. 12689 MAGNESIUM ANODE OEM: N/A  V4 & V6 (1982-Up) NEW	No. 12688 MAGNESIUM ANODE OEM: N/A  V4 & V6 (1982-1986) NEW	
No. 12769 MAGNESIUM ANODE KIT OEM: N/A  20-35 HP (1991-Up) NEW	No. 12687 MAGNESIUM ANODE OEM: N/A  All Outboards NEW	No. 12678 MAGNESIUM ANODE OEM: N/A  4, 6, 8 HP (1985-1990) NEW	
No. 12679 MAGNESIUM ANODE OEM: N/A  4-Stroke 9.9-15 HP (1995-2001) NEW	No. 12759 MAGNESIUM ANODE OEM: 5034351  4-Stroke 40-50 HP (2004-Up) NEW	No. 12741 MAGNESIUM ANODE OEM: N/A  155 HP (1987-1990), 250 HP (1991-1998) NEW	
No. 12766 MAGNESIUM ANODE OEM: N/A  40 HP-V8 (1988-1991) NEW	No. 12767 MAGNESIUM ANODE OEM: N/A  3-Cyl.-V6 (1991-Up) NEW	No. 12768 MAGNESIUM ANODE OEM: N/A  40-50 HP (1989-Up) NEW	No. 12779 MAGNESIUM ANODE OEM: 5034522  4-Stroke 60, 70, 90, 115, 140 HP (2004-Up) NEW

MAGNESIUM PROP NUT ANODE KITS AND REPLACEMENT ANODES

Prop Nut Anode Kits			Magnesium	Replacement Anodes			Magnesium
GLM No.	Shaft Size	Thread Size		GLM No.	For Kit No.	Anode Size	
12901 	3/4"	1/2" NC 13		12911 	12901	ø 1-1/4" x 1-1/2"L	
12902 	7/8"	5/8" NC 11		12912 	12902	ø 1-5/8" x 2"L	
12904 	1-1/8"	3/4" NF 16		12913 	12904	ø 2" x 2-5/8"L	

Johnson / Evinrude

SERVICE TOOLS

The GLM Shimming Tool No. 90330 makes rebuilding a lower gearcase so simple anyone can do it!

Unlike the factory shimming tool it requires no mathematical calculations to determine pinion height/shim thickness. The measurement determined with a simple feeler gauge is the shim thickness!

When rebuilding a Johnson / Evinrude outboard gearcase, the correct pinion gear height must be adjusted with shims of varying thickness. The amount of shims needed is determined with a shim tool.

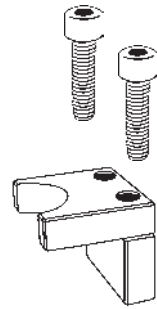
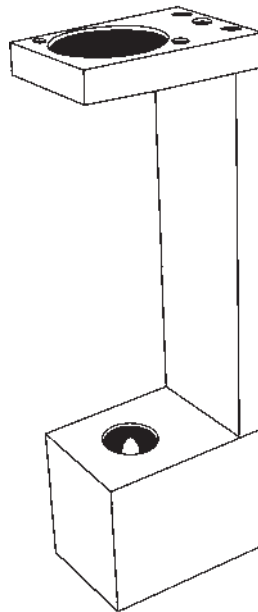
The drive shaft assembly and pinion gear are installed into the GLM shimming tool. A shim finder is mounted on the top of the pinion gear (small magnets installed in the shim finder hold it in place). The gap between the bottom of the shim finder and the base of the tool is determined with a feeler gauge. When the drive shaft and pinion gear are installed into the gearcase, shims equaling the thickness of the feeler gauge measurement are installed between the upper thrust bearing washer and the upper bearing carrier.

No. 90330

SHIMMING TOOL

OEM: N/A

For OMC Stringer and Cobra
V6 Outboard



Comes with
SHIM FINDER
No. 90335

For use with
"O" Type or
"M" Type
Gearcases.
Not for use with
Magnum Gearcases.

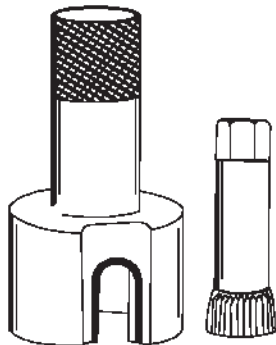
SPECIAL TOOLS

No. 90340

PINION NUT ADAPTOR KIT

OEM: N/A

GLM design to hold 5/8" pinion nut when removing pinion gear and drive shaft on OMC sterndrive and O/B comes with No. 90350



No. 90350

DRIVE SHAFT ADAPTOR

OEM: 314438



Section 9

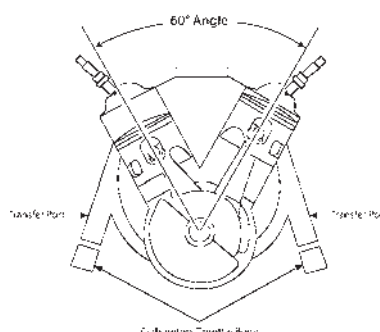
Johnson / Evinrude Pistons

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Johnson / Evinrude

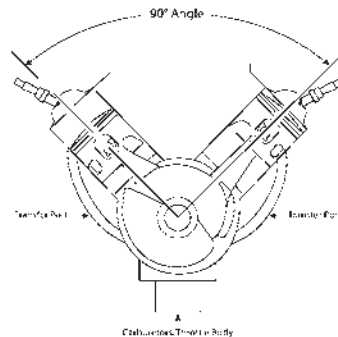
ENGINE DESIGNS (60° vs. 90°) V4/V6

Johnson / Evinrude outboards were the first to break away from the inline cylinder engine concept. In 1958 they introduced a V4 outboard to the marine industry. This outboard had the cylinder walls configured into a 90 degree V shape. In 1976 two more cylinders were added and the 90 degree V6 was born. As casting techniques improved a more compact 60 degree V6 engine was introduced in 1991 followed by the 60 degree V4 in 1995. Other than a narrower profile the difference between an older 90 degree engine and a newer 60 degree engine is the location of the carburetors/throttle bodies. A 90 degree V4/V6 engine will have the carburetors/throttle bodies located in the front of the crankcase directly over the crankshaft. A 60 degree V4/V6 engine will have the carburetors/throttle bodies located on the side of the crankcase, directly over the transfer ports.



60° V4/V6

VS.



90° V4/V6

GLM'S EXCLUSIVE MARINE PISTONS

- Fully Machined Hypereutectic Pistons
- Featuring a Hard Anodizing Coating on Top
- Resisting Temperatures up to 1560°F
- Hardness: HV280-400
- Pistons are T-6 Heat Treated

OEM CAST vs. FORGED

(99% of OEM Pistons are Cast)

	CASTING	FORGING
Pros	Low expansion rate Lighter weight Longer life Lower costs	Greater Strength
Cons	Less strength but compensated by strong mold process	Heavier weight High expansion rate Shorter life Higher costs
Verdict	For Recreational For General use	High Performance Purposes

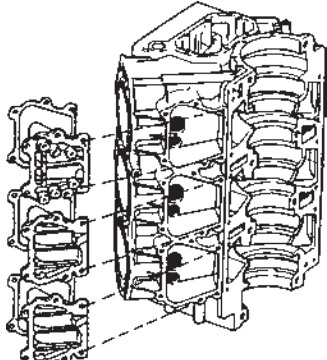
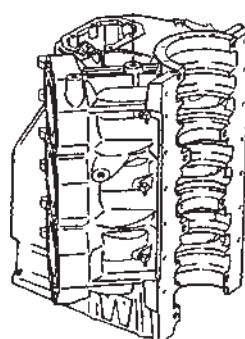
GLM PISTONS ARE 100% CAST



Johnson / Evinrude

PISTON DESIGNS

There are three basic piston designs used in Johnson / Evinrude outboard engines; Crossflow, Loopcharged and Four-Stroke.

Crossflow	Loopcharged	Four-Stroke
The oldest design, and the one used on all Johnson / Evinrude engines until 1968, is the crossflow piston. As the air / fuel mixture travels through the transfer port and into the cylinder, a deflector, cast into the top of the piston, directs the air / fuel mixture towards the combustion chamber and spark plug tip for maximum efficiency. All engines with deflectors on top of the pistons will be crossflow engines. External inspection of a crossflow engine will reveal removable transfer port covers on the side of the cylinders.  Removeable Transfer Port Cover  Piston with Deflector Top	In 1968 Johnson / Evinrude introduced an outboard engine with loopcharged pistons. This engine was the 55 HP 3-Cylinder. A loopcharged engine has a transfer port cast into the cylinder wall in such a way that it will direct the air / fuel mixture towards the combustion chamber and spark plug tip without the need for a piston deflector. All engines with a flat top or a slight dome on the top of the pistons will be loopcharged. Loopcharged engines will not have removable transfer port covers on the side of the cylinders.  Non-Removeable Transfer Port Cover  Piston with Flat Top	Four-stroke / four-cycle engines are fairly new to the marine industry. They have become the engine design preferred by most marine engine manufacturers to meet government mandated exhaust emission standards. Oil stored in the crankcase of these engines is splashed onto the cylinder walls for piston and ring lubrication. The pistons are equipped with oil control rings to scrap excess oil off of the cylinder walls. Four-stroke / four-cycle pistons are easily identified by a three piece oil control ring in the bottom ring position. The pistons almost always have a flat top or a dished top and never have needle bearings between the wrist pin and connecting rod (like two-stroke engines).   Piston with Flat Top and Oil Ring in the Bottom Position

Johnson / Evinrude

2-CYLINDER CROSSFLOW PISTONS

Crossflow Pistons for 2-Cylinder 9.9 HP & 15 HP (1981-1992) Johnson / Evinrude Outboards

These engines use $\varnothing$ 2.1875" pistons

9.9 HP	1981-1992
15 HP	1981-1992



Pistons for above engines

<u>GLM Piston No.</u>	<u>Size</u>	<u>OEM Piston No.</u>
24410	$\varnothing$ 2.1875	5006670
24420	$\varnothing$ 2.1875 +.020	N/A
24430	$\varnothing$ 2.1875 +.030	5006662

all pistons come with rings, pin and retainers

Rings for above $\varnothing$ 2.1875" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
23710	$\varnothing$ 2.1875	386279
23720	$\varnothing$ 2.1875 +.020	N/A
23730	$\varnothing$ 2.1875 +.030	386280

all rings come 2 to a set

Johnson / Evinrude

2-CYLINDER CROSSFLOW PISTONS

Crossflow Pistons for 2-Cylinder 20 HP, 25 HP, 30 HP, 35 HP (1981-1994) Johnson / Evinrude Outboards

These engines use $\varnothing$ 3.000" pistons

20 HP	1981-1983
25 HP	1986-1994
30 HP	1984-1994



Pistons for above engines

<u>GLM Piston No.</u>	<u>Size</u>	<u>OEM Piston No.</u>
23910	$\varnothing$ 3.000	5006657
23920	$\varnothing$ 3.000 +.020	N/A
23930	$\varnothing$ 3.000 +.030	5006664

all pistons come with rings, pin and retainers

Rings for above $\varnothing$ 3.000" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24240	$\varnothing$ 3.000	396377
24260	$\varnothing$ 3.000 +.020	N/A
24280	$\varnothing$ 3.000 +.030	396379

all rings come 2 to a set

Johnson / Evinrude

2-CYLINDER LOOPCHARGED PISTONS

Loopcharged Pistons for 2-Cylinder 40 HP - 60 HP (1980-1994) Johnson / Evinrude Outboards

These engines use $\varnothing$ 3.1875" pistons

40 HP	1984-1994	50 HP	1981-1994
45 HP	1994	55 HP	1994
48 HP	1987-1994	60 HP	1980-1985



Pistons for above engines

<u>GLM Piston No.</u>	<u>Size</u>	<u>OEM Piston No.</u>
24110	$\varnothing$ 3.1875	5006655
24112	$\varnothing$ 3.1875 +.020	N/A
24130	$\varnothing$ 3.1875 +.030	5006665

all pistons come with rings, pin and retainers

Rings for above $\varnothing$ 3.625" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24310	$\varnothing$ 3.1875	391170
24320	$\varnothing$ 3.1875 +.020	N/A
24330	$\varnothing$ 3.1875 +.030	391416

all rings come 2 to a set

Johnson / Evinrude

3-CYLINDER LOOPCHARGED PISTONS

Loopcharged Pistons for 3-Cylinder 60 HP, 65 HP, 70 HP, 75 HP (1976-1988) Johnson / Evinrude Outboards

These engines use $\varnothing$ 3.000" pistons

60 HP	1986-1988
65 HP	1984-1986
70 HP	1976-1985
75 HP	1976-1985



Pistons for above engines

<u>GLM Piston No.</u>	<u>Size</u>	<u>OEM Piston No.</u>
24040	$\varnothing$ 3.000	5006751
24060	$\varnothing$ 3.000 +.020	N/A
24080	$\varnothing$ 3.000 +.030	5006666

all pistons come with rings, pin and retainers

Rings for above $\varnothing$ 3.000" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24240	$\varnothing$ 3.000	396377
24260	$\varnothing$ 3.000 +.020	396378
24280	$\varnothing$ 3.000 +.030	396379

all rings come 2 to a set

Johnson / Evinrude

3-CYLINDER LOOPCHARGED PISTONS

Loopcharged Pistons for 3-Cylinder 60 HP, 65 HP, 70 HP (1986-1994) Johnson / Evinrude Outboards

These engines use $\varnothing$ 3.1875" pistons with
Keystone (triangular) rings

60 HP	1989-1994
65 HP	1987-1994
70 HP	1986-1994



Pistons for above engines

<u>GLM Piston No.</u>	<u>Size</u>	<u>OEM Piston No.</u>
23770	$\varnothing$ 3.1875	5006701
23780	$\varnothing$ 3.1875 +.020	N/A
23790	$\varnothing$ 3.1875 +.030	5006702

all pistons come with rings, pin and retainers

Rings for above $\varnothing$ 3.1875" pistons

Top ring is 2.3 mm thick Bottom ring is 1.6 mm thick

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24310	$\varnothing$ 3.1875	391170
24320	$\varnothing$ 3.1875 +.020	N/A
24330	$\varnothing$ 3.1875 +.030	391416

all rings come 2 to a set



Johnson / Evinrude

3-CYLINDER LOOPCHARGED PISTONS

Loopcharged Pistons for 3-Cylinder 60 HP, 65 HP, 70 HP (1994-2001) Johnson / Evinrude Outboards

These engines use $\varnothing$ 3.1875" pistons with
traditional (rectangular) rings

60 HP	1994-2001
65 HP	1994-2001
70 HP	1994-2001



Pistons for above engines

<u>GLM Piston No.</u>	<u>Size</u>	<u>OEM Piston No.</u>
23740	$\varnothing$ 3.1875	5006694
23750	$\varnothing$ 3.1875 +.020	5006707
23760	$\varnothing$ 3.1875 +.030	5006695



all pistons come with rings, pin and retainers

Rings for above $\varnothing$ 3.1875" pistons

Rings are 2 mm thick

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24540	$\varnothing$ 3.1875	436972
24550	$\varnothing$ 3.1875 +.020	N/A
24560	$\varnothing$ 3.1875 +.030	436973



all rings come 2 to a set

Johnson / Evinrude

V4 90° & V6 90° CROSSFLOW PISTONS

Crossflow Pistons for 90 Degree V4 & V6 Johnson / Evinrude Outboards

These engines use ø 3.500" pistons

85 HP	90 Degree V4	1979-1980	150 HP	90 Degree V6	1978-1991
88 HP	90 Degree V4	1987-1993	175 HP	90 Degree V6	1977-1985
90 HP	90 Degree V4	1981-1993	185 HP	90 Degree V6	1984-1985
100 HP	90 Degree V4	1984-1994	200 HP	90 Degree V6	1976-1983
110 HP	90 Degree V4	1986-1990	235 HP	90 Degree V6	1978-1979
115 HP	90 Degree V4	1974-Thru			
135 HP	90 Degree V4	1974-1976			
140 HP	90 Degree V4	1977-1984			



Pistons for above engines

<u>GLM Piston No.</u>	<u>Size</u>	<u>OEM Piston No.</u>
24010	ø 3.500	5006658
24020	ø 3.500 +.020	5006703
24030	ø 3.500 +.030	5006669
24034	ø 3.500 +.040	5006704

all pistons come with rings, pin and retainers

Rings for above ø 3.500" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24210	ø 3.500	394930
24220	ø 3.500 +.020	439001
24230	ø 3.500 +.030	396504
24300	ø 3.500 +.040	439002

all rings come 2 to a set

Johnson / Evinrude

V6 90° CROSSFLOW PISTONS

Crossflow Pistons for 90 Degree V6 Johnson / Evinrude Outboards

These engines use ø 3.625" pistons

175 HP	90 Degree V6	1986-1991
235 HP	90 Degree V6	1980-1985



Pistons for above engines

<u>GLM Piston No.</u>	<u>Size</u>	<u>OEM Piston No.</u>
23940	ø 3.625	5006656
23950	ø 3.625 +.020	N/A
23960	ø 3.625 +.030	5006668

all pistons come with rings, pin and retainers

Rings for above ø 3.625" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24570	ø 3.625	390509
24580	ø 3.625 +.020	N/A
24590	ø 3.625 +.030	390510

all rings come 2 to a set

Johnson / Evinrude

V4 60° & V6 60° LOOPCHARGED PISTONS

Loopcharged Pistons for 60 Degree V4 & V6 Johnson / Evinrude Outboards with Carburetors

These engines use ø 3.600" pistons

90 HP	60 Degree V4	1995-newer with Carburetors
115 HP	60 Degree V4	1995-newer with Carburetors
150 HP	60 Degree V6	1991-newer with Carburetors
175 HP	60 Degree V6	1991-newer with Carburetors



Pistons for above engines

<u>GLM Piston No.</u>		<u>Size</u>	<u>OEM Piston No.</u>	
Port	Starboard		Port	Starboard
14600	14610	ø 3.600	5006687, 5006681	5006688, 5006682
14620	14630	ø 3.600 +.020	5006708	5006715
14640	14650	ø 3.600 +.030	5006714, 5006679	5006716, 5006680

all pistons come with rings, pin and retainers

Rings for above ø 3.600" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
14170	ø 3.600	436353
14180	ø 3.600 +.020	439029
14190	ø 3.600 +.030	436354

all rings come 2 to a set

Johnson / Evinrude

V4 60° & V6 60° LOOPCHARGED PISTONS

Loopcharged Pistons for 60 Degree V4 & V6 Johnson / Evinrude Outboards with Fuel Injection

These engines use $\varnothing$ 3.600" with a dish in the piston top

75 HP	60 Degree V4	2000-newer with Fuel Injection
90 HP	60 Degree V4	2000-newer with Fuel Injection
115 HP	60 Degree V4	2000-newer with Fuel Injection
150 HP	60 Degree V6	2000-newer with Fuel Injection
175 HP	60 Degree V6	2000-newer with Fuel Injection



Pistons for above engines

<u>GLM Piston No.</u>		<u>Size</u>	<u>OEM Piston No.</u>	
Port	Starboard		Port	Starboard
24440	24450	$\varnothing$ 3.600	5006727	5006728
24460	24470	$\varnothing$ 3.600 +.020		
24480	24490	$\varnothing$ 3.600 +.030	5006729	5006730

all pistons come with rings, pin and retainers

Rings for above $\varnothing$ 3.600" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
14170	$\varnothing$ 3.600	436353
14180	$\varnothing$ 3.600 +.020	439029
14190	$\varnothing$ 3.600 +.030	436354

all rings come 2 to a set

Johnson / Evinrude

V4 90° / V6 90° / V8 LOOPCHARGED PISTONS

Loopcharged Pistons for 90 Degree V4/V6/V8 Johnson / Evinrude Outboards

These 1985-1987 engines use ø 3.500" pistons

120 HP	90 Degree V4	1985-1987
140 HP	90 Degree V4	1985-1987
200 HP	90 Degree V6	1986-1987
225 HP	90 Degree V6	1986-1987
275 HP	90 Degree V8	1985-1987
300 HP	90 Degree V8	1985-1987



Pistons for above engines

<u>GLM Piston No.</u>		<u>Size</u>	<u>OEM Piston No.</u>	
Port	Starboard		Port	Starboard
23800	23810	ø 3.500	5006659	N/A
23820	23830	ø 3.500 +.020	N/A	N/A
23840	23850	ø 3.500 +.030	5006660	N/A

all pistons come with rings, pin and retainers

Rings for above ø 3.500" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24210	ø 3.500	394930
24220	ø 3.500 +.020	439001
24230	ø 3.500 +.030	396504

all rings come 2 to a set

Johnson / Evinrude

V4 90° / V6 90° / V8 LOOPCHARGED PISTONS

Loopcharged Pistons for 90 Degree V4/V6/V8 Johnson / Evinrude Outboards

These 1988 and newer engines use ø 3.6875" pistons

120 HP	90 Degree V4	1988-1994
140 HP	90 Degree V4	1988-1994
200 HP	90 Degree V6	1988-1992
225 HP	90 Degree V6	1988-1992
250 HP	90 Degree V8	1991-1998
300 HP	90 Degree V8	1988-1995



Pistons for above engines

<u>GLM Piston No.</u>		<u>Size</u>	<u>OEM Piston No.</u>	
Port	Starboard		Port	Starboard
24050	24100	ø 3.6875	5006675, 5006671	5006676, 5006672
24070	24120	ø 3.6875 +.020	N/A	N/A
24090	24140	ø 3.6875 +.030	5006673, 5006677	5006674, 5006678

all pistons come with rings, pin and retainers

Rings for above ø 3.6875" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24250	ø 3.6875	431870
24270	ø 3.6875 +.020	N/A
24290	ø 3.6875 +.030	431844

all rings come 2 to a set

Johnson / Evinrude

V6 90° LOOPCHARGED PISTONS

Loopcharged Pistons for 90 Degree V6 Johnson / Evinrude Outboards

**These 1993 and newer engines use ø 3.6875" pistons
with finger ports**

200 HP	90 Degree V6	1993-2001 with carburetors
225 HP	90 Degree V6	1993-2001 with carburetors



Pistons for above engines

<u>GLM Piston No.</u>		<u>Size</u>	<u>OEM Piston No.</u>	
Port	Starboard		Port	Starboard
24150	24160	ø 3.6875	5006691	5006690
24170	24180	ø 3.6875 +.020	5006706	5006712
24190	24200	ø 3.6875 +.030	5006711	5006713

all pistons come with rings, pin and retainers

Rings for above ø 3.6875" pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24340	ø 3.6875	436254
24350	ø 3.6875 +.020	439538
24360	ø 3.6875 +.030	436251

all rings come 2 to a set

Johnson / Evinrude

2-CYLINDER FOUR-STROKE PISTONS

Four-Stroke Pistons for 2-Cylinder 9.9 HP and 15 HP (1995-2002) Johnson Outboards

These engines use $\varnothing$ 65 mm pistons

9.9 HP	1995-2002
15 HP	1995-2002



Pistons for above engines

<u>GLM Piston No.</u>	<u>Size</u>	<u>OEM Piston No.</u>
24500	$\varnothing$ 65 mm	437776
24520	$\varnothing$ 65 mm +.030	437777

all pistons come with rings, pin and retainers

Rings for above $\varnothing$ 65 mm pistons

<u>GLM Ring No.</u>	<u>Size</u>	<u>OEM Ring No.</u>
24370	$\varnothing$ 65 mm	436289
24390	$\varnothing$ 65 mm +.030	436290

all rings come 5 to a set

Johnson / Evinrude

PISTON KITS AND RINGS APPLICATIONS

HP	Year	Standard		.020 Oversize		.030 Oversize		.040 Oversize	
		Piston	Ring	Piston	Ring	Piston	Ring	Piston	Ring
	2-Cylinder								
2-Cyl., 9.9, 15 (ø 2.1875)	1981-92	24410	23710	24420	23720	24430	23730	N/A	N/A
9.9, 15 (4 Cycle)	1995-02	24500	24370	N/A	N/A	24520	24390	N/A	N/A
20, 25, 3.0	81-83/86-94	23910	24240	23920	24260	23930	24280	N/A	N/A
30, 3.0	1984-94	23910	24240	23920	24260	23930	24280	N/A	N/A
20, 35	1976-80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Cylinder Loopcharged									
40 (ø 3.1875)	1984-94	24110	24310	24112	24320	24130	24330	N/A	N/A
48	1987-94	24110	24310	24112	24320	24130	24330	N/A	N/A
50	1981-94	24110	24310	24112	24320	24130	24330	N/A	N/A
55	1980-93	24110	24310	24112	24320	24130	24330	N/A	N/A
45, 55	1994	24110	24310	24112	24320	24130	24330	N/A	N/A
60	1980-85	24110	24310	24112	24320	24130	24330	N/A	N/A
3-Cylinder Loopcharged									
50 (ø 3.1875)	1995-98	23740	24540	23750	24550	23760	24560	N/A	N/A
60, 3.0	1986-88	24040	24240	24060	24260	24080	24280	N/A	N/A
60, 65, 70 (ø 3.1875)	1986-94	23770	24310	23780	24320	23790	24330	N/A	N/A
60, 70 (ø 3.1875)	1994-Thru	23740	24540	23750	24550	23760	24560	N/A	N/A
65, 3.0	1984-86	24040	24240	24060	24260	24080	24280	N/A	N/A
70, 3.0	1976-85	24040	24240	24060	24260	24080	24280	N/A	N/A
75, 3.0	1976-85	24040	24240	24060	24260	24080	24280	N/A	N/A
V4 60° Loopcharged									
75, 90, 115, Fuel Inj. V4 60°	2000-Thru	24440 PORT	14170	24460	14180	24480	14190	N/A	N/A
		24450 STBD	14170	24470	14180	24490	14190	N/A	N/A
90, 115, Carburetors V4 60°	1995-Thru	14600 PORT	14170	14620	14180	14640	14190	N/A	N/A
		14610 STBD	14170	14630	14180	14650	14190	N/A	N/A
V4 90° Crossflow									
85 Crossflow	1979-80	24010	24210	24020	24220	24030	24230	24034	24300
88 Crossflow	1987-98	24010	24210	24020	24220	24030	24230	24034	24300
90 Crossflow	1981-98	24010	24210	24020	24220	24030	24230	24034	24300
100 Crossflow	1979-80	24010	24210	24020	24220	24030	24230	24034	24300
100 Crossflow Comm.	1984-Thru	24010	24210	24020	24220	24030	24230	24034	24300
110 Crossflow	1986-88	24010	24210	24020	24220	24030	24230	24034	24300
115 Crossflow	1974-98	24010	24210	24020	24220	24030	24230	24034	24300
135 Crossflow	1974-76	24010	24210	24020	24220	24030	24230	24034	24300
140 Crossflow	1977-84	24010	24210	24020	24220	24030	24230	24034	24300



Johnson / Evinrude

PISTON KITS AND RINGS APPLICATIONS (CONTINUED)									
HP	Year	Standard		.020 Oversize		.030 Oversize		.040 Oversize	
		Piston	Ring	Piston	Ring	Piston	Ring	Piston	Ring
V4 90° Loopcharged									
120, 140 Loopcharged	1985-87	23800 PORT	24210	23820	24220	23840	24230	N/A	N/A
		23810 STBD	24210	23830	24220	23850	24230	N/A	N/A
120, 130, 140 Loopcharged	1988-94	24050 PORT	24250	24070	24270	24090	24290	N/A	N/A
		24100 STBD	24250	24120	24270	24140	24290	N/A	N/A
V6 90° Crossflow									
150 Crossflow	1978-83	24010	24210	24020	24220	24030	24230	24034	24300
150 Crossflow	1984-91	24010	24210	24020	24220	24030	24230	24034	24300
155 Comm. Crossflow	1985-87	24010	24210	24020	24220	24220	24230	N/A	N/A
175 Crossflow	1977-83	24010	24210	24020	24220	24030	24230	24034	24300
175 Crossflow	1984-85	24010	24210	24020	24220	24220	24230	N/A	N/A
175 Crossflow	1986-91	23940	24570	23950	24580	23960	24590	N/A	N/A
185 Crossflow	1985	24010	24210	24020	24220	24220	24230	N/A	N/A
200 Crossflow	1976-83	24010	24210	24020	24220	24030	24230	24034	24300
235 Crossflow	1978-79	24010	24210	24020	24220	24030	24230	24034	24300
235 Crossflow	1980-85	23940	24570	23950	24580	23960	24590	N/A	N/A
V6 60° Loopcharged									
150, 175 Carburetors V6 60°	1991-Thru	14600 PORT	14170	14620	14180	14640	14190	N/A	N/A
		14610 STBD	14170	14630	14180	14650	14190	N/A	N/A
150, 175 Fuel Inj. V6 60°	2000-Thru	24440 PORT	14170	24460	14180	24480	14190	N/A	N/A
		24450 STBD	14170	24470	14180	24490	14190	N/A	N/A
V6 90° Loopcharged									
200-225 Loopcharged V6 90°	1985-87	23800 PORT	24210	23820	24220	23840	24230	N/A	N/A
		23810 STBD	24210	23830	24220	23850	24230	N/A	N/A
200-225 Loopcharged V6 90°	1988-92	24050 PORT	24250	24070	24270	24090	24290	N/A	N/A
		24100 STBD	24250	24120	24270	24140	24290	N/A	N/A
200-225 Loopcharged V6 90°	1993-01	24150 PORT	24340	24170	24350	24190	24360	N/A	N/A
		24160 STBD	24340	24180	24350	24200	24360	N/A	N/A
V8 Loopcharged									
250 Loopcharged V8	1991-98	24050 PORT	24250	24070	24270	24090	24290	N/A	N/A
		24100 STBD	24250	24120	24270	24140	24290	N/A	N/A
300 Loopcharged V8	1988-95	24050 PORT	24250	24070	24270	24090	24290	N/A	N/A
		24100 STBD	24250	24120	24270	24140	24290	N/A	N/A
275-300 Loopcharged V8	1985-87	23800 PORT	24210	23820	24220	23840	24230	N/A	N/A
		23810 STBD	24210	23830	24220	23850	24230	N/A	N/A



Section 10

Johnson / Evinrude Powerhead Bearings and Seals

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Johnson / Evinrude

POWERHEAD BEARINGS

Main Bearings

No. 22840

OEM: 395401



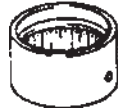
Metal Cage

Ø .8125 Journal Size

9.9-15 HP (1974-95)
9.9-15 HP (1974-83)

No. 22920

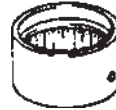
OEM: 390900



Most Early & Late Model 45-60 HP
2-Cyl. and 3-Cyl. Models

No. 22930

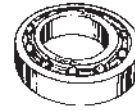
OEM: 398529



Many Late Model 45-60 HP
2-Cyl. and 3-Cyl. Models

No. 21860

OEM: 377139

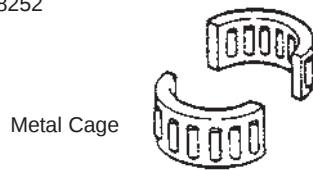


3-Cyl. Lower Crankshaft
(1968-94)

Center Bearings

No. 22800

OEM: 378252



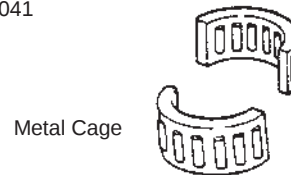
Metal Cage

Ø 1.375 Journal Size

40C (1974-Thru), 45-60 HP 2-Cyl., (1971-Thru),
3-Cyl. All, V4 (1962-78)

No. 22810

OEM: 387041



Metal Cage

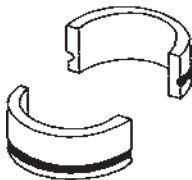
Ø 2.1875 Journal Size

V4 Crossflow (1979-Thru), V6 Crossflow (1976-Thru)
All V4-V6 60° Models

Center Split Sleeve

No. 22700

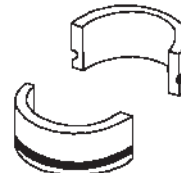
OEM: 310433



40C (1974-Thru), 45-60 HP 2-Cyl., (1971-Thru),
3-Cyl. All, V4 (1962-78)

No. 22710

OEM: 320499



V4 Crossflow (1979-Thru), V6 Crossflow (1976-Thru)
All V4-V6 60° Models

Center Bearing Kits

No. 22755

OEM: N/A

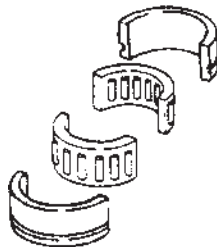


Kit Contains:

GLM	OEM	ITEM
22800	378252	Main Bearing
22700	310433	Center Split Sleeve

Ø 1.375
Journal Size

40C (1974-Thru), 45-60 HP 2-Cyl., (1971-Thru),
3-Cyl. All, V4 (1962-78)



No. 22855

OEM: N/A

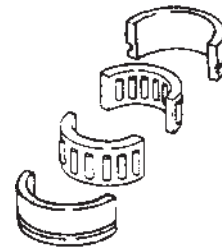


Kit Contains:

GLM	OEM	ITEM
22810	387041	Main Bearing
22710	320499	Center Split Sleeve

Ø 2.1875
Journal Size

V4 Crossflow (1979-Thru), V6 Crossflow (1976-Thru)
All V4-V6 60° Models



Johnson / Evinrude

POWERHEAD BEARINGS

Connecting Rod Bearings - Small End

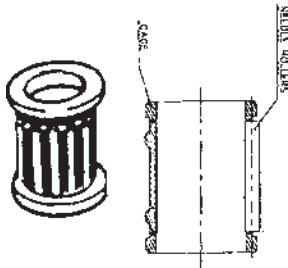
No. 16240

OEM: 378251

GLM DESIGN !

HEAVY DUTY CAGE !

Meet ISO
3030 Standard



25, 40, 50, 65 & 85 HP (1972-Thru)

No. 16220

OEM: 395627



20-35 HP (1981-95), 45-60 2-Cyl. (1977-95)
3-Cyl. (1976-Thru), V4 Crossflow (1973-Thru)
V6 Crossflow (1976-Thru), All 60° V4/V6 Models

No. 16230

OEM: 434844



V4/V6/V8
90° Loopcharged Models (1985-Up)

Connecting Rod Bearings - Big End

No. 22840

OEM: 395401



Metal Cage

ø .8125 Journal Size

9.9-15 HP (1974-95), 9.9-15 HP (1974-83)

No. 16200

OEM: 437088



Metal Cage

ø 1.1825 Journal Size - 30mm

20-35 HP (1976-95), 46-60 HP 2-Cyl. (1971-94),
3-Cyl. (1968-93), V4 (1961-73)

No. 22500

REPLACEMENT
BEARINGS FOR CAGE
OEM: 387139, 387142



No. 22820

OEM: 387787



Metal Cage

ø 1.375 Journal Size

V4 Crossflow (1979-Thru), V6 Crossflow (1976-Thru)
All V4/V6 60° Models

No. 22500

OEM: 387139, 387142
Replacement Bearings
For Cage



No. 22850

OEM: 396041



Metal Cage

ø 1.500 Journal Size

V4/V6/V8
90° Loopcharged Models (1985-95)

Johnson / Evinrude

BEARING APPLICATIONS

HP	Year	Main Bearing	Center Bearing	Center Split Sleeve Bearing	Center Bearing Kit	Connecting Rod Bearing Small End	Connecting Rod Bearing Big End
9.9	1974-83	-	22840	-	-	-	22840
9.9	1984-97	-	-	-	-	-	22840
10	1981	-	22840	-	-	-	22840
10 Comm.	1989-91	-	-	-	-	-	22840
10 Comm.	1994	-	-	-	-	-	22840
14	1981	-	22840	-	-	-	22840
14 Comm.	1989-91	-	-	-	-	-	22840
15	1974-83	-	22840	-	-	-	22840
15	1984-97	-	-	-	-	-	22840
15 Comm.	1994	-	-	-	-	-	22840
18	1960-68	-	-	-	-	-	-
18	1970-73	-	-	-	-	16240	-
18 Jet	1996-97	-	-	-	-	16220	22840
20	1981-84	-	-	-	-	16220	22840
20	1985-97	-	-	-	-	16220	16200
25	1970-76	-	-	-	-	16240	-
25	1977	-	-	-	-	16240	16200
25	1978-80	-	-	-	-	16240	16200
25	1981-84	-	-	-	-	16220	16200
25	1985-97	-	-	-	-	16220	16200
25 Comm.	1982-84	-	-	-	-	16220	16200
25 Comm.	1985-97	-	-	-	-	16220	16200
28	1962-64	-	-	-	-	-	-
28	1987-97	-	-	-	-	16220	16200
30	1984	-	-	-	-	16220	16200
30	1985-97	-	-	-	-	16220	16200
33	1965-69	-	-	-	-	-	-
33	1970	-	-	-	-	16240	16200
35	1976-80	-	-	-	-	16240	16200
35	1981-84	-	-	-	-	16220	16200
35	1985-97	-	-	-	-	16220	16200
40	1961-70	-	-	-	-	-	-
40	1971-73	-	-	-	-	16240	16200
40	1974-76	-	22800	22700	22755	16240	16200
40	1983	-	22800	22700	22755	16240	16200
40	1984-86	22920	22800	22700	22755	16220	16200
40	1987-97	22930	22800	22700	22755	16220	16200
40 Comm.	1982-83	-	22800	22700	22755	16240	16200
40 Comm.	1984-85	22920	22800	22700	22755	16240	16200
40 Comm.	1989-90	22930	22800	22700	22755	16240	16200
40 Comm.	1994	22930	22800	22700	22755	16220	16200
40 Comm.	1995-00	22930	22800	22700	22755	16220	-
45 Comm.	1987-94	22920	22800	22700	22755	16220	16200
45 Comm.	1995-97	22930	22800	22700	22755	16220	-
45 SS	1987-90	22920	22800	22700	22755	16220	16200
48	1987	22920	22800	22700	22755	16220	16200
48	1988-96	22930	22800	22700	22755	16220	16200
50	1979-83	22920	22800	22700	22755	16220	16200
50	1984-86	22920	22800	22700	22755	16220	16200
50	1987-00	22930	22800	22700	22755	16220	16200
50	1995-00	22930	22800	22700	22755	16220	-
55	1968-69	-	22800	22700	22755	16240	16200
55	1976-81	22920	22800	22700	22755	16220	16200
55 Comm.	1982	22920	22800	22700	22755	16220	16200
55 Comm.	1983-86	22920	22800	22700	22755	16220	16200
55 Comm.	1987-94	22930	22800	22700	22755	16220	16200
55 Comm.	1995-00	22930	22800	22700	22755	16220	-
60	1964-01 / 1970-71	-	22800	22700	22755	16240	16200
60	1980-83	22920	22800	22700	22755	16220	16200
60	1984-85	22920	22800	22700	22755	16220	16200
60	1986-90	22920	22800	22700	22755	16220	16200
60	1991-93	22930	22800	22700	22755	16220	16200
60	1994-01	22930	22800	22700	22755	16220	-
SST-69	1989-90	22920	22800	22700	22755	16220	-
65	1968	-	22800	22700	22755	16240	16200
65	1972-73	22920	22800	22700	22755	16240	16200

Johnson / Evinrude

BEARING APPLICATIONS							
HP	Year	Main Bearing	Center Bearing	Center Split Sleeve Bearing	Center Bearing Kit	Connecting Rod Bearing Small End	Connecting Rod Bearing Big End
65 Comm.	1984	22920	22800	22700	22755	16220	16200
65 Comm.	1985-90	22920	22800	22700	22755	16220	16200
65 Comm.	1991-93	22930	22800	22700	22755	16220	16200
65 Comm.	1994-01	22930	22800	22700	22755	16220	-
70	1974-75	22920	22800	22700	22755	16240	16200
70	1976-84	22920	22800	22700	22755	16220	16200
70	1985-90	22920	22800	22700	22755	16220	16200
70	1991-93	22930	22800	22700	22755	16220	16200
70	1994-01	22930	22800	22700	22755	16220	-
75	1960-65	-	22800	22700	22755	16240	16200
75	1975	22920	22800	22700	22755	16240	16200
75	1976-84	22920	22800	22700	22755	16220	16200
75	1985-88	22920	22800	22700	22755	16220	16200
80	1966-67	-	22800	22700	22755	16240	16200
80 Jet	1992-98	-	22810	22710	22855	16220	-
85	1968-72	-	22800	22700	22755	16240	16200
85	1973	-	22800	22700	22755	16220	16200
85	1974-78	-	22800	22700	22755	16220	22820
85	1979-80	-	22810	22710	22855	16220	22820
85	1991-95	-	22810	22710	22855	16220	22820
88	1987-96	-	22810	22710	22855	16220	22820
90	1981-03	-	22810	22710	22855	16220	22820
90	1995-03	-	22810	22710	22855	16220	22820
90 Jet	1994-95	-	22810	22710	22855	16220	22820
100	1966-68	-	22800	22700	22755	16240	16200
100	1971-72	-	22800	22700	22755	16240	16200
100	1979-80	-	22810	22710	22855	16220	22820
100	1990-94	-	22810	22710	22855	16220	22820
100 Comm.	1984-05	-	22810	22710	22855	16220	22820
110	1986-89	-	22810	22710	22855	16220	22820
112	1994-96	-	22810	22710	22855	16220	22820
115	1969-70	-	22800	22700	22755	16240	16200
115	1973	-	22800	22700	22755	16220	16200
115	1974-78	-	22800	22700	22755	16220	22820
115	1979-85	-	22810	22710	22855	16220	22820
115	1990-06	-	22810	22710	22855	16220	22820
115	1995-06	-	22810	22710	22855	22820	22820
115 Jet	1994-06	-	22810	22710	22855	16220	22820
120	1985-94	-	22810	22710	22855	16230	22850
125	1971-72	-	22800	22700	22755	16240	16200
125 Comm.	1989-95	-	22810	22710	22855	16230	22850
125 ESX	1991-94	-	22810	22710	22855	16230	22850
130	1994-00	-	22810	22710	22855	16230	22850
135	1973	-	22800	22700	22755	16220	16200
135	1974-76	-	22800	22700	22755	16220	22820
140	1977-78	-	22800	22700	22755	16220	22820
140	1979-84	-	22810	22710	22855	16220	22820
140	1985-94	-	22810	22710	22855	16230	22850
150	1978-91	-	22810	22710	22855	16220	22820
150	1991-06	-	22810	-	-	16220	22820
150 Comm.	1993-95	-	22810	-	-	16220	22820
155 Comm.	1984-92	-	22810	22710	22855	16220	22820
175	1977-91	-	22810	22710	22855	16220	22820
175	1991-06	-	22810	-	-	16220	22820
185	1984-85	-	22810	22710	22855	16220	22820
185	1990-94	-	22810	22710	22855	16230	22850
200	1976-83	-	22810	22710	22855	16220	22820
200	1986-06	-	22810	22710	22855	16230	22850
200 Comm.	1990, 1994	-	22810	22710	22855	16230	22850
225	1986-06	-	22810	22710	22855	16230	22850
235	1978-85	-	22810	22710	22855	16220	22820
250	1991-95, 1997	-	22810	22710	22855	16230	22850
275	1985-88	-	22810	22710	22855	16230	22850
3.6L	1985-87	-	22810	22710	22855	16230	22850
300	1988-95	-	22810	22710	22855	16230	22850

Johnson / Evinrude

CRANKSHAFT SEALS APPLICATIONS

HP	Year	Upper Crankcase	Qty. Req.	Lower Crankcase	Qty. Req.	HP	Year	Upper Crankcase	Qty. Req.	Lower Crankcase	Qty. Req.
9.9	1974-1983	-	-	86760	1	65 (3-Cyl.)	1972-1973	86770	1	86030	1
9.9	1984-1995	-	-	86760 / 86430	1	65 C	1984-1985	86770	1	86030	1
10	1981	-	-	86760	-	65 C	1986-1989	86770	1	86030	1
10	1989	-	-	86760 / 86430	1	70 (Large)	1974-1985	86770	1	86030	1
14	1988-1990	-	-	86760 / 86430	1	70 (Large)	1986-1995	86770	1	-	-
15	1974-1983	-	-	87670	1	70 (Small)	1977-1985	86770	1	-	-
15	1984-1995	-	-	86760 / 86430	1	75 (Large)	1975-1984	86770	1	-	-
18	1957	86060	1	-	-	75 (Large)	1986-1987	86770	1	-	-
18	1958-1973	86380	1	-	-	75 (Small)	1975-1984	86770	1	86030	1
25	1969-1976	86380	1	-	-	85	1969-1970	86440	1	86030	1
40	1960-1961	86380	1	-	-	85	1971-1972	86440	1	86030	1
40	1974-1976	86770	1	86030	1	85	1973-1980	86440	2	86030	1
40 C	1981-1986	86770	1	86030	2	88	1987-1994	86440	2	-	-
40	1984-1985	86770	1	86030	1	90	1981-1983	86440	2	86030	1
40 (AR, AE, AT)	1988	86770	1	-	-	90	1984-1994	86250	1	-	-
40	1986-1989	86770	1	-	-	90 Seadrive	1985-1990	86440	2	86030	1
45 C	1985	86770	1	-	-	100	1971-1972	86440	1	86030	1
45 C	1986	86770	1	-	-	100	1979-1980	86440	2	86030	1
45 C	1987	86770	1	-	-	100 C	1984-1990	86440	2	-	-
45 C	1988-1994	86770	1	-	-	110	1986-1988	86440	2	86030	1
45 C	1995	86770	1	-	-	115	1969-1970	86440	1	86030	1
48	1988-1995	86770	1	86270 (Inner)	1	115	1973-1983	86440	1	86030	1
50	1971-1974	86770	1	86030	1	115	1984-1985	86440	2	86030	1
50	1975	86770	1	86030	1	115	1990-1994	86440	2	-	-
50	1979	86770	1	86030	1	120	1985	86440	2	86470	2
50	1980	86770	1	86030	1	120	1986-1988	86440	2	86470	2
50/60 (Pull Start)	1981-1983	86770	1	86030	1	120	1989	86440	2	86470	2
50/60 (Electric)	1981-1983	86770	1	86030	1	120	1990-1994	86440	2	86470	2
50/60	1984-1985	86770	1	86030	1	125	1971-1972	86440	1	86030	1
50/60 (Small)	1986-1987	86770	1	86030	1	125 C	1989	86440	2	86470	1
50/60 (Large)	1986-1987	86770	1	86030	1	125 C (ESX)	1989	86250	1	86470	1
50/60	1988-1989	86770	1	86030	1	135	1973-1976	86440	2	86030	1
50	1990-1995	86770	1	86270 (Inner)	1	140	1977-1983	86440	2	86030	1
55	1968-1969	86770	1	86030	1	140	1984	86440	2	86030	1
55	1976-1977	86770	1	86030	1	140	1985	86440	2	86470	2
55	1978	86770	1	86030	1	140	1986-1994	86440	2	86470	2
55	1979-1983	86770	1	86030	1	140 TX	1989	86440	2	86470	2
55 (Electric)	1980-1983	86770	1	86030	1	150	1978-1983	86440	2	86470	2
55 C	1984	86770	1	86030	1	150	1984	86440	2	-	-
55 C	1985	86770	1	86030	1	155 C	1984-1985	86440	2	86030	1
55 C	1986	86770	1	-	-	155 C	1986-1990	86440	2	-	-
55 C	1987-1994	86770	1	-	-	175	1977-1985	86440	2	86030	1
55 C	1995	86770	1	-	-	175	1986-1990	86440	2	-	-
60	1970	86770	1	86030	1	185	1984-1985	86440	2	86030	1
60 (3-Cyl.)	1971	86770	1	86030	1	185	1990	86440	2	86470	1
60 (Pull Start)	1980-1983	86770	1	86030	1	200	1976-1983	86440	2	86030	1
60 (Electric)	1980-1983	86770	1	86030	1	200	1984-1985	86440	2	-	-
60	1970	86770	1	86030	1	200, 225	1986-1990	86440	2	86470	2
60 SST	1989	86770	1	86030	1	235	1978-1983	86440	2	86030	1
60 SST	1990	86770	1	-	-	235	1984-1985	86440	2	86030	1
60 (3-Cyl.)	1987-1995	86770	1	-	-	275	1985-1988	86440	2	86470	2
65 (Manual)	1968	86770	1	-	-	3.6L, 300	1985-1990	86440	2	86470	2



Section 11

Johnson / Evinrude Thermostats

<i>Thermostat Kits</i>	<i>136</i>
<i>2-Cyl. 25/35 HP Thermostat Assembly (1996-2001)</i>	<i>137</i>
<i>2 & 3-Cyl. & V4 Loopcharged Thermostat Assembly (1992-2000)</i>	<i>137</i>
<i>V4 Crossflow Assembly</i>	<i>137</i>
<i>V6 Crossflow Assembly</i>	<i>137</i>
<i>Thermostats</i>	<i>138</i>
<i>Thermostat Covers & O-ring</i>	<i>138</i>
<i>Thermostat & Valve Springs</i>	<i>138</i>
<i>Thermostat Housing Components</i>	<i>139</i>
<i>Thermostat Gaskets</i>	<i>140</i>
<i>Thermostat Cover Gaskets</i>	<i>140</i>

Johnson / Evinrude

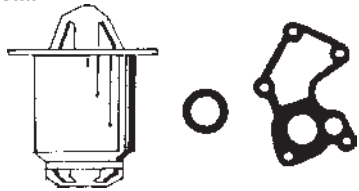
THERMOSTAT KITS

No. 13450

OEM: N/A

Kit Contains:

GLM	OEM	ITEM
13080	396987	Thermostat
34630	332108	Gasket



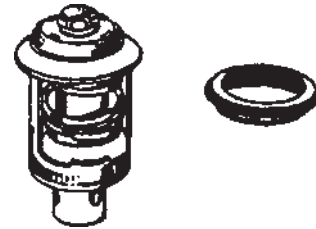
3-Cyl.

No. 13350

OEM: N/A

Kit Contains:

GLM	OEM	ITEM
13010	434841	Thermostat
30610	310058	Gasket



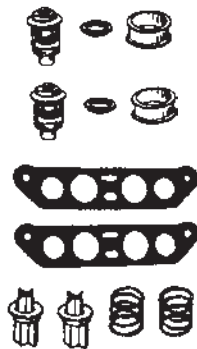
6-55 HP, 90° V4, 90° V6

No. 13270

OEM: N/A

Kit Contains:

GLM	OEM	ITEM	QTY
13010	434841	Thermostat	2
46170	318395	Valve	2
46150	317245	Spring	2
86481	321692	Grommet	2
33650	332369	Gasket	2
34440	321932	Gasket	2



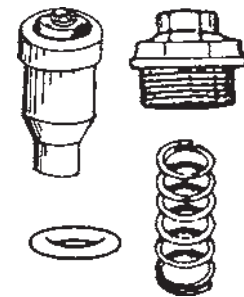
143° For V4 Crossflow

No. 13330

OEM: 435597

Kit Contains:

GLM	OEM	ITEM
13720	338632	T-stat Cover
81250	331188	O-Ring
11058	337067	Spring
13130	435491	Thermostat



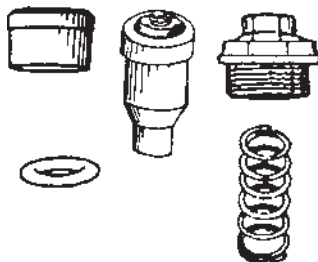
60° V4/V6

No. 13290

OEM: N/A

Kit Contains:

GLM	OEM	ITEM
13720	338632	T-stat Cover
81250	331188	O-Ring
11058	337067	Spring
13130	435491	Thermostat
13251	343105	Sleeve



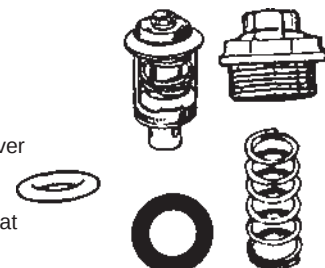
143° for 60° V4/V6

No. 13310

OEM: N/A

Kit Contains:

GLM	OEM	ITEM
13730	332944	T-stat Cover
81250	331188	O-Ring
11058	337067	Spring
13110	437090	Thermostat
33070	339044	Gasket



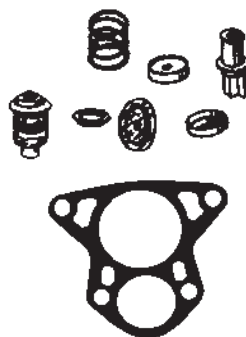
90° V6 Offshore Models

No. 13280

OEM: N/A

Kit Contains:

GLM	OEM	ITEM
13010	434841	Thermostat
30610	310058	Seal
33600	321184	Gasket
46150	317245	Spring
46100	320880	Valve Seat
46120	321222	Valve Cup
46140	321221	Valve Diaphragm
46160	321220	Spring Retainer
46180	321027	Valve



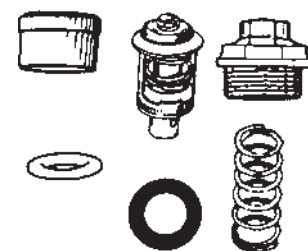
143° For V6 Crossflow

No. 13260

OEM: N/A

Kit Contains:

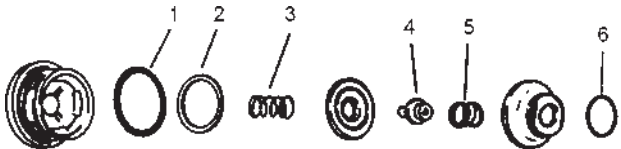
GLM	OEM	ITEM
13730	332944	T-stat Cover
81250	331188	O-Ring
11058	337067	Spring
13110	437090	Thermostat
33070	339044	Gasket
13251	343105	Sleeve



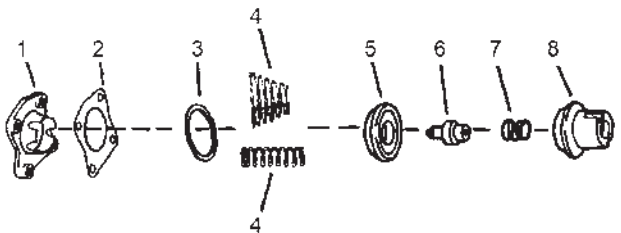
133° for V6 Offshore Models

Johnson / Evinrude

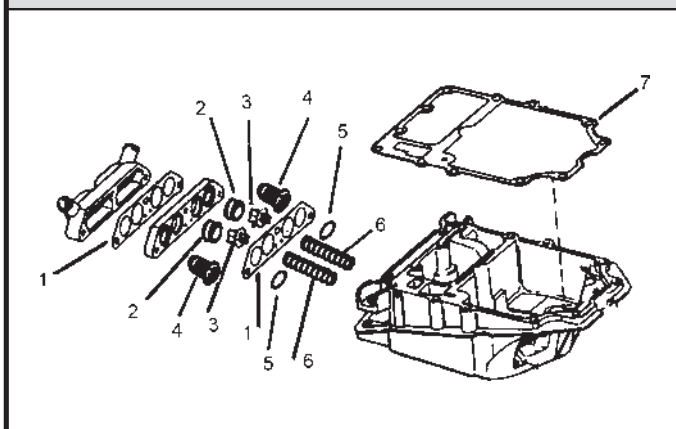
2-CYL. 25/35 HP THERMOSTAT ASSEMBLY (1996-2001)

	Ref. No.	GLM No.	OEM No.	Item
	1	81290	308458	O-ring
	2	21658	336185	Washer
	3	11041	336211	Spring
	4	13150	436195	Thermostat
	5	11038	336179	Spring
	6	81170	301967	O-ring

2-CYL., 3-CYL. & V4 LOOPCHARGED THERMOSTAT ASSEMBLY (1992-2000)

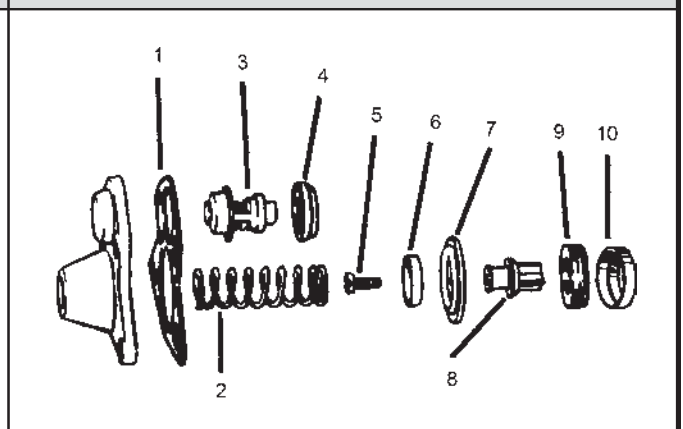
	Ref. No.	GLM No.	OEM No.	Item
	1	13240	343141	Cover
	2	35440	329830	Gasket
	3	21658	336185	Washer
	* 4	11041	336211	Spring 60-70 HP (1993) & V4
	4	11042	342421	Spring 40-70 HP (1995-96) & V4
	4	11043	343115	Spring 40-70 HP (1997-98)
	4	11044	343020	Spring V4
	4	11053	343977	Spring 40-70 HP (1986-01)
	5	46132	435957	Diaphragm
	6	13150	436195	Thermostat
	7	11038	336179	Spring
	8	13570	336178	Therm. Sleeve
* Spring use with Thermostat Cover No. 339207				

V4 CROSSFLOW



Ref. No.	GLM No.	OEM No.	Item
1	33650	332369	Gasket
2	86481	321692	Grommet
3	46170	318395	Valve
4	13010	5005440	Thermostat
5	34440	321932	Gasket
6	46150	317245	Spring
7	34880	318373	Gasket (1973-77)
7	33640	342513	Gasket (1978-97)

V6 CROSSFLOW



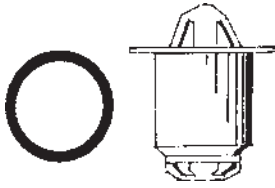
Ref. No.	GLM No.	OEM No.	Item
1	33600	321184	Gasket
2	46150	317245	Spring
3	13010	5005440	Thermostat
4	30610	310058	Gasket
5	22370	306643	Screw
6	86130	321120	Plate Seal
7	46140	321221	Diaphragm
8	46180	321027	Valve
9	46100	320880	Valve Seat
10	46120	321222	Valve Cup

Johnson / Evinrude

THERMOSTATS

No. 13080

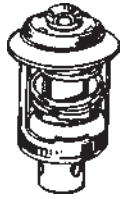
OEM: 396987
143°



3-Cyl. (1985 & before)

No. 13010

OEM: 434841, 5005440
143°



6-55 HP, V4, V6 Crossflow

No. 13130

OEM: 435491
143°



60° V4 90-115HP (1995-up)
60° V6 150-175HP (1991-up)

No. 13170

OEM: 434137
143°



3-Cyl. (1986-91)
V4 Loopcharged & V8

No. 13150

OEM: 436195
143°



9.9,15,40,48, 50 HP 3-Cyl., V4

No. 13190

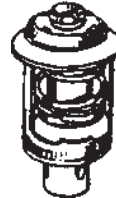
VERNATHERM
OEM: 394411
143°



65, 85, 100, 115, 135 HP
(1971-1990)

No. 13110

OEM: 437090
133°
Lower Flow



90° V6 Offshore Models
Stainless Steel

No. 13180

OEM: 5001036
133°
Higher Flow



90° V6 200-250 Ficht

THERMOSTAT COVERS & O-RING

No. 13240

OEM: 343141



50-70 HP (1986-up)

No. 13730

OEM: 332944



2-Cyl. Loopcharged (1997)
V6 Offshore Models

No. 13720

OEM: 338632



60° V4, V6

THERMOSTAT & VALVE SPRINGS

No. 11038

OEM: 336179



No. 11044

OEM: 343020



No. 11058

OEM: 338174

No. 11041

OEM: 336211



No. 11045

OEM: 337067



No. 46150

OEM: 317245

No. 11042

OEM: 342421



No. 11053

OEM: 343977

No. 11043

OEM: 343115

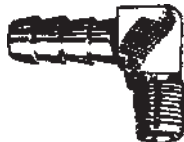
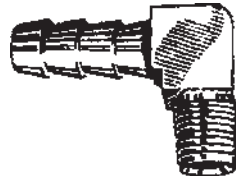


No. 11054

OEM: 333858

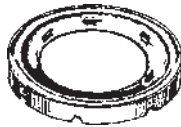


Johnson / Evinrude

THERMOSTAT HOUSING COMPONENTS				
No. 46110 VALVE CUP OEM: 330273  For V4/V6 Loopcharged	No. 46120 VALVE CUP OEM: 321222  For V6 Crossflow	No. 46132 VALVE DIAPHRAGM OEM: 435957  2-Cyl., 3-Cyl. V4 Loopcharged	No. 46130 VALVE DIAPHRAGM OEM: 394408  For V4/V6 Loopcharged	No. 46140 VALVE DIAPHRAGM OEM: 321221  For V6 Crossflow
No. 46100 VALVE SEAT OEM: 320880  For V6 Crossflow	No. 46170 VALVE OEM: 318395  For V4 Crossflow	No. 46180 VALVE OEM: 321027  For V6 Crossflow	No. 46160 SPRING RETAINER OEM: 321220  For V6 Crossflow	
No. 86481 GROMMET OEM: 321692  For V4 Crossflow	No. 13251 THERMOSTAT SLEEVE OEM: 343105  For V4 Crossflow	No. 13570 THERMOSTAT SLEEVE OEM: 336178  2-Cyl., 3-Cyl. & V4 Loopcharged	No. 13580 THERMOSTAT SLEEVE OEM: 337533  90° V6 Loopcharged	
No. 21658 WASHER OEM: 336185  2-Cyl., 3-Cyl. V4 Loopcharged	No. 10563 ELBOW OEM: 126776 For 5/16 Hose  60-70 HP (1988-Up)	No. 10561 ELBOW OEM: 321886 For 1/4 Hose  9.9-15 (1978-95), 20-35 HP (1978-80) 3-Cyl., V4 (1978-Thru), V6 (1978-92) 40-60 2-Cyl. (1978-90), (1978-91)	No. 10562 ELBOW OEM: 331894 For 3/8 Hose  V6 (1987-90) Loopcharged with Power Steering V8 (1986-91) w/ Pwr. Steer.	

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THERMOSTAT GASKETS

No. 34130 RUBBER GROMMET OEM: 323582  2-Cyl. Crossflow 9.9-25 HP Thermostat	No. 30610 RUBBER GROMMET OEM: 310058  2-Cyl. Crossflow 90° V6 Crossflow Thermostat	No. 34110 RUBBER OEM: 329319  2-Cyl. Crossflow 8-30 HP Thermostat	No. 34260 CORK OEM: 313416  3-Cyl. Thermostat
No. 36590 RUBBER OEM: 332130  3-Cyl. Thermostat	No. 33070 RUBBER OEM: 339044  60° V4, V6 Thermostat	No. 34440 CORK OEM: 321932  90° V4 Crossflow Thermostat	No. 86213 POP OFF SEAT OEM: 335981  3-Cyl. Thermostat

THERMOSTAT COVER GASKETS

No. 35410 OEM: 329076  6-8 HP	No. 86215 OEM: 336947  5, 6, 8, 10, 15 HP (1991-2001)	No. 33290 OEM: 308328  2-Cyl. Crossflow	No. 34000 OEM: 311145  2-Cyl. Crossflow
No. 33250 OEM: 305196  2-Cyl. Crossflow	No. 34890 OEM: 318917  2-Cyl. Crossflow	No. 35440 OEM: 329830  2 & 3-Cyl. Loopcharged 90° V4 Loopcharged	No. 34630 OEM: 332108 (1985-1988)  3-Cyl., 49 Cubic Inch
No. 34150 OEM: 305586  90° V4 Crossflow	No. 33650 OEM: 332369  90° V4 Crossflow	No. 33600 OEM: 321184  90° V6 Crossflow	No. 36870 OEM: 337068  90° V6 Loopcharged

Section 12

Johnson / Evinrude Ignition and Electrical

<i>Point Sets</i>	<i>142</i>
<i>Condensers</i>	<i>142</i>
<i>Tune-Up Kits</i>	<i>142</i>
<i>Ignition System Applications</i>	<i>143</i>
<i>Coils and Kits</i>	<i>144</i>
<i>Power Trim Relays and Solenoids</i>	<i>144</i>
<i>Rectifiers</i>	<i>144</i>
<i>Coils and Kits Applications</i>	<i>145</i>
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<i>Rectifiers Applications</i>	<i>146</i>

Johnson / Evinrude

POINT SETS

No. 70070

OEM: 580148



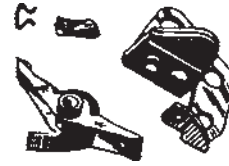
No. 70200

OEM: 581207



No. 70080

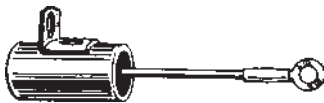
OEM: 580290



CONDENSERS

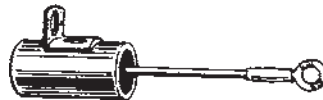
No. 70570

OEM: 580321



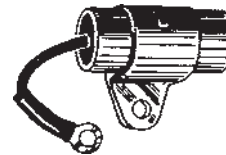
No. 70640

OEM: 581419



No. 70590

OEM: 580256



TUNE-UP KITS

No. 72800

OEM: 172521

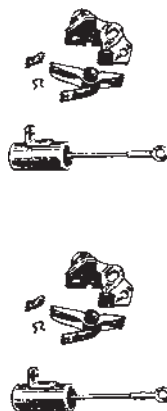
Kit Contains:
1-70070 Point
1-70570 Condenser



No. 72810

OEM: 172522

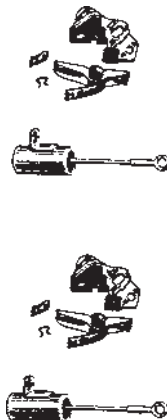
Kit Contains:
2-70070 Point
2-70570 Condenser



No. 72820

OEM: 172523

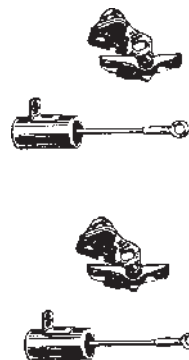
Kit Contains:
2-70070 Point
2-70640 Condenser



No. 72830

OEM: 172806

Kit Contains:
2-70200 Point
2-70640 Condenser



No. 72840

OEM: 172524, 172525

Kit Contains:
2-70080 Point
1-70590 Condenser



w/o Rotors

Johnson / Evinrude

IGNITION SYSTEM APPLICATIONS				
HP	Year	Point Sets	Condenser	Tune-Up Kits
1.5, 2	1968-90	70070	70570	72800
3	1952-68	70070	70570	72810
4	1965-76	70070	70570	72810
4	1981-90	70070	70570	72810
4.5	1981	70200	70640	72830
5	1965-68	70070	70570	72810
5.5	1954-64	70070	70570	72810
6	1965-76	70070	70570	72810
7.5	1956-58	70070	70570	72810
9.5	1964-73	70070	70570	72810
9.9	1974-76	70080	70640	72830
10	1954-63	70070	70570	72810
15	1956	70200	70640	72830
15	1974-76	70070	70570	72810
18	1957-61	70070	70570	72810
18	1962-73	70070	70640	72820
20	1962-73	70070	70640	72820
25	1955	70070	70570	72810
25	1969-76	70070	70640	72820
28	1962-64	70070	70640	72820
30	1956	70070	70570	72810
33	1965-70	70070	70640	72820
35	1958-59	70070	70570	72810
35	1976	70070	70640	72820
40	1960-61	70200	70570	72810
40	1962-73	70070	70640	72820
40	1974-76	70070	70640	72820
40C	1981-83	70200	70640	72830
45	1958-59	70080	70590	72840
50	1958-59	70080	70590	72840
60	1964-67	70080	70590	72840
75	1960-65	70080	70590	72840
80	1966-67	70080	70590	72840
90	1964-75	70080	70590	72840
100	1966	70080	70590	72840

Johnson / Evinrude

COILS AND KITS

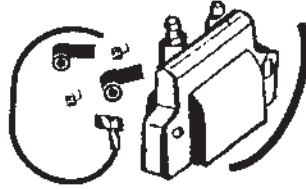
No. 72100

OEM: 584477



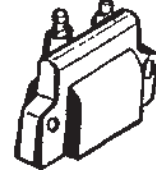
No. 72080

OEM: 584561



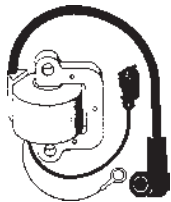
No. 72010

OEM: 582508



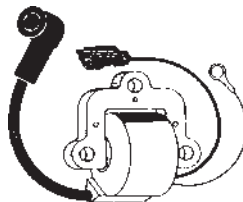
No. 72020

OEM: 502880



No. 72030

OEM: 502881



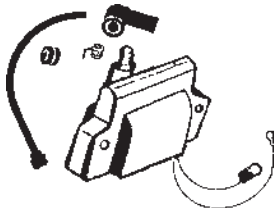
No. 72050

OEM: 502890



No. 72070

OEM: 582382



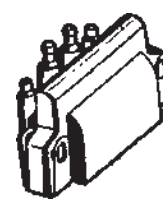
No. 72040

OEM: 502888



No. 72060

OEM: 583740



RECTIFIERS

No. 72350

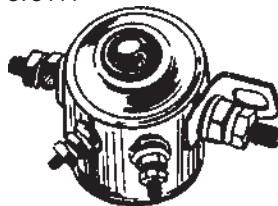
OEM: 581778



POWER TRIM RELAY AND SOLENOIDS

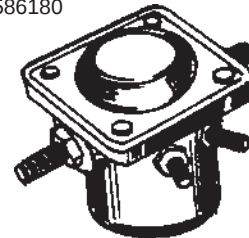
No. 72420

OEM: 378444



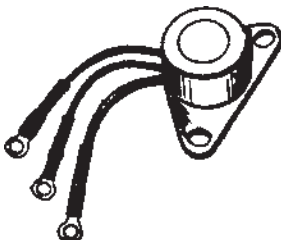
No. 72430

OEM: 586180



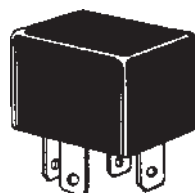
No. 72320

OEM: 583408



No. 73010

OEM: 586147, 586224

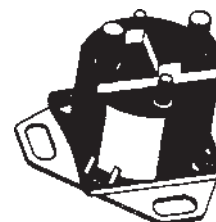


No. 72440

OEM: 581528

No. 72404

OEM: 584128



NEW

Johnson / Evinrude

COILS AND KITS APPLICATIONS

HP	Year	GLM No.	QTY	HP	Year	GLM No.	QTY
1.5, 2 Colt Jr.	1968-90	72100	1	60	1978-84	72080	2
3	1952-68	72100	1	60	1985 & UP	72010	3
4	1950-76	72100	1	60 SST	1989-90	72010	3
4	1981-89	72100	1	65	1971-75	72050	3
4	1977-80	72080	1	65	1979-84	72080	3
4 Deluxe	1985 & UP	72010	2	65 Comm.	1985 & UP	72010	3
4.5	1980-84	72080	2	70	1974-75	72050	4
4.5	1986-87	72010	2	70	1979-84	72080	3
5	1950-76	72100	2	70	1985 & UP	72010	3
5	1985-91	72010	2	70	1974-74	72050	1
5.5 - 6	1950-76	72100	2	75	1979-84	72080	3
6	1977-84	72080	2	75	1985 & UP	72010	3
6	1985-90	72010	2	85	1969-72	72070	1
6.5 Comm.	1989-90	72010	2	85	1973-75	72050	1
7.5	1954-58	72100	2	85	1976-77	72040	4
7.5	1980-84	72080	2	85	1978-84	72080	4
8	1980-84	72080	2	85	1985 & UP	72010	4
8	1985-90	72010	2	88	1987 & UP	72010	4
9.5	1964-73	72100	2	90	1978-84	72080	4
9.9, 15	1974-76	72020	2	90	1985-94	72010	4
9.9, 15	1977-84	72080	2	100	1971-72	72070	1
9.9, 15	1985 & UP	72010	2	100	1978-84	72080	4
9.9, 15 4-Stroke	1994 & UP	72080	2	100	1985 & UP	72010	4
10	1951-63	72100	2	1600 CC	1988	72010	4
10, 14 Comm.	1989-90	72080	2	110	1986-90	72010	4
14	1988	72080	2	115	1969-70	72070	1
15	1951-72	72100	2	115	1973-74	72050	4
18	1951-72	72100	2	115	1976-77	72040	4
18, 20	1973	72030	2	115	1978-94	72080	4
20	1951-72	72100	2	120	1985 & UP	72010	4
20	1985 & UP	72010	2	125	1971-72	72070	1
25	1951-72	72100	2	125	1991 & UP	72010	4
25	1973-76	72030	2	125 Comm.	1989 & UP	72010	4
25	1977-84	72080	2	135	1973-75	72050	4
25	1985 & UP	72010	2	135	1976	72040	4
25 Comm.	1985-91	72010	-	135	1977	72040	4
28	1956-70	72100	2	140	1978-84	72080	4
28	1987-88	72080	2	140	1985 & UP	72010	4
28	1989 & UP	72010	2	150	1976-78	72040	1
30	1956-70	72100	2	150	1979-84	72080	6
30	1977-84	72080	2	150 (A)	1985 & UP	72010	6
30	1985 & UP	72010	2	155 Comm. (A)	1984 & UP	72010	6
33, 35	1956-70	72100	2	2500 CC	1988	72010	6
35	1976	72030	2	175	1976-78	72040	6
35	1977-84	72080	2	175	1979-84	72080	6
40	1960-73	72100	2	175 (A)	1985 & UP	72010	6
40	1974	72020	2	185	1984 & UP	72010	6
40 (B)	1975-83	72030	2	200	1976-78	72040	6
40	1977-84	72080	2	200	1979-84	72080	6
40	1985-88	72010	2	200	1985 & UP	72010	6
40 Comm.	1985-90	72010	2	225	1986 & UP	72010	6
45 Comm.	1985-92	72010	2	235	1976-78	72040	6
45 SS	1987-90	72010	2	235	1979-84	72080	6
48	1987 & UP	72010	2	250	1991 & UP	72010	8
50	1971-75	72050	2	275	1985 & UP	72010	8
50	1978-84	72080	2	300, 3.6	1985 & UP	72010	8
50	1985-88	72010	2	Sail Drive	1978-84	72080	2
55	1978-84	72080	2	Sail Drive	1985 & UP	72010	2

(A) Will Not Fit Loopcharged Engines (B) Contact Controlled Engines Only

Johnson / Evinrude

POWER TRIM RELAY AND SOLENOIDS APPLICATIONS

HP	Year	Solenoids	Relay	HP	Year	Solenoids	Relay
18	1957-59	72420	-	80 (E)	1966	72430	-
20 (A)	1981-92	72430	-	80	1967	72430	-
25 (A)	1972-92	72430	-	85	1968-75	72430	-
28	1987-92	72430	-	85	1976-80	72430	72440
30 (A)	1984-92	72430	-	85	1991-92	72430	73010
33	1965-67	72420	-	88	1987-92	72430	73010
33	1968-70	72430	-	90	1964	72420	-
35	1957-59	72420	-	90	1965	72430	72440
35	1976-88	72430	-	90	1981	72430	73010
40	1960-66	72420	-	90	1982-92	72430	-
40	1967-92	72430	-	100	1966-72	72430	-
45 (B)	1989-92	72430	-	100	1979-80	72430	72440
45 SS	1988-90	72430	-	100 (E)	1984-92	72430	73010
48	1987-92	72430	-	F600cc (13)	1988	72430	73010
50	1958-59	72420	-	110	1986-89	72430	73010
50	1971-79	72430	-	115	1969-75	72430	-
50	1981-83	72430	-	115	1976-81	72430	72440
50	1984-92	72430	-	115	1982-92	72430	73010
55	1968-80	72430	-	120	1985-92	72430	73010
55	1981	72430	-	125 (C)	1971-81	72430	-
55 (B)	1989-92	72430	-	125 (C)	1982-92	72430	73010
80	1964-66	72420	-	135	1973	72430	-
60	1967-80	72430	-	135	1974-75	72430	-
60	1981-83	72430	-	135	1976	72430	72440
80	1984-92	72430	73010	140	1977-81	72430	72440
SST 60	1989-90	72430	73010	140	1982-92	72430	73010
65 (C)	1968-72	72430	-	150	1979-81	72430	72440
85 (C)	1985-92	72430	73010	150	1982-92	72430	73010
70	1961	72420	-	155 (B)	1984-92	72430	73010
70	1974-80	72430	-	2500cc	1988	72430	73010
70	1981	72430	72440	175	1977-81	72430	72440
70	1982-92	72430	73010	175	1982-92	72430	73010
75	1960-64	72420	-	185	1984-92	72430	73010
75 (D)	1985	72420	-	200	1978-81	72430	72440
75 (E)	1965	72430	-	200 (C)	1982-92	72430	73010
75	1975-80	72430	-	225	1986-92	72430	73010
75	1981	72430	72440	235	1978-81	72430	72440
75	1982-88	72430	73010	235	1982-85	72430	73010
80 (D)	1966	72420	-	250	1991-91	72430	73010
				275	1985-88	72430	73010

(A) Electric Start Only (B) Comm. Models (C) Comm. Models Only (D) w/o Elec. Shift (E) w/ Elec. Shift

RECTIFIERS APPLICATIONS

HP	Year	Rectifier	HP	Year	Rectifier
9.9, 15	1974-92	72350	65	1972-73, 1988-91	72320
20 (D)	1989-92	72350	70 (B)	1974-91	72320
25	1977-92	72350	75	1975-88	72320
28	1989-92	72350	85	1970-80	72320
30 (D)	1989-92	72350	88	1989-92	72320
35	1976-88	72350	90	1981-92	72320
40	1974-76, 1988-92	72350	100 (C)	1971, 1979-80, 1984-92	72320
45	1989-92 Comm.	72350	115	1973-92	72320
45 SS	1989-90	72350	125	1971-72	72320
48	1989-92	72350	135 (G)	1974	72320
50	1971-75	72320	140	1977-88	72320
55	1976-77	72320	450	1979-88	72320
55 (A)	1978-81, 1980-92	72350	155	1984-88	72320
60	1970 (E), 1971	72320	175	1977-83	72320
60	1980-88	72350	185	1984-88	72320
60 (F)	1989-91	72320	200	1976-83	72320
SST 60	1989-90	72320	235	1978-88	72320

(A) Comm. Models (B) 1911 EL & TL Models (C) Except 1992 Models WTLNE & ETXENE (D) Elec. Start (E) D Models (F) EL & TL Models (G) 135443, 135483 Models



Section 13

Johnson / Evinrude Carburetor Kits and Fuel Pumps

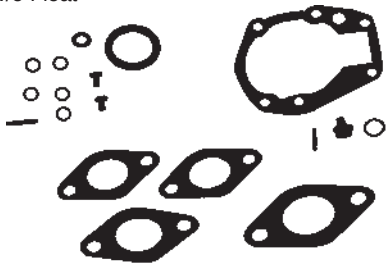
<i>Carburetor Service Kits</i>	<i>148</i>
<i>Needles and Seats</i>	<i>148</i>
<i>Carburetor Service Kits / Needle and Seats Applications</i>	<i>149</i>
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Johnson / Evinrude

CARBURETOR SERVICE KITS

No. 40510

OEM: 439071
w/o Float



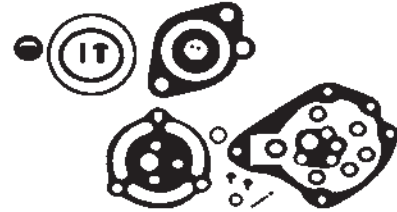
No. 40550

OEM: 439072



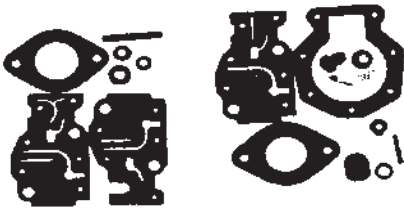
No. 40530

OEM: 439074, 439075
w/o Float & Filter



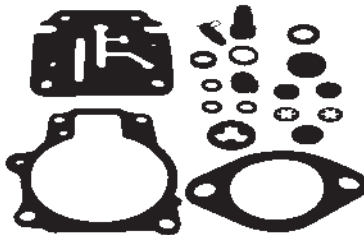
No. 40600

OEM: 439073



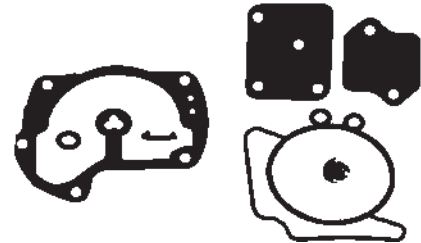
No. 40560

OEM: 396701



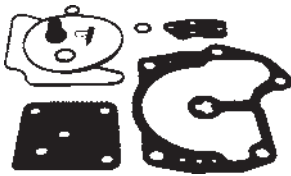
No. 40580

OEM: 439078, 439079
w/o Float



No. 40520

OEM: 437327
w/o Float



No. 40540

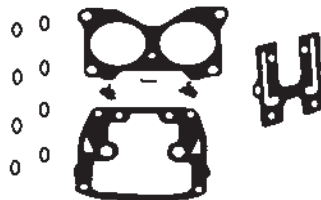
OEM: 436959

LIMITED TO STOCK



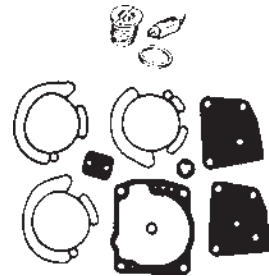
No. 40570

OEM: 439076



No. 40590

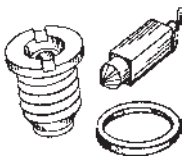
OEM: 438996



NEEDLES & SEATS

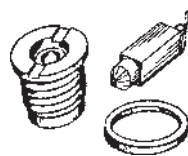
No. 40720

OEM: 396522



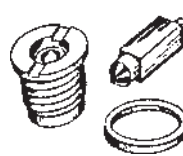
No. 40710

OEM: 396521



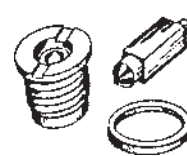
No. 40700

OEM: 387262



No. 40730

OEM: 396520



Johnson / Evinrude

CARBURETOR SERVICE KITS / NEEDLES & SEATS APPLICATIONS							
HP	Year	Carb. Kit w/o Float	Needle & Seat	HP	Year	Carb. Kit w/o Float	Needle & Seat
1.5	1970-90	40510	40720	60	1964-67	40540	40710
2	1970-90	40510	40720	60	1970-95	40560	40710
3	1952-67	40510	40710	60	1992-93	40580	40720
3	1968	40510	40720	65	1972-95	40560	40710
4	1965-78	40510	40720	65	1992-93	40580	40720
4	1983-89	40550	40720	70	1972-95 (3-Cyl.)	40560	40710
4	1991-93	40550	40720	70	1992-93	40580	40720
4.5	1982-84,87	40550	40720	75	1960-63	40540	40710
5	1965-67	40510	40720	75	1975-88	40560	40710
5	1968	40530	40710	80	1966-67	40540	40710
5	1984-85	40550	40720	85	1968	40540	40710
5.5	1954-67	40510	40720	85	1971-79	40530	40710
6	1954-79	40510	40720	85	1969-70,91-93	40570	40700
6	1968	40530	40710	V-4	1969-79	40570	40700
6	1984-85	40550	40720	V-4	1983-84	40570	40700
6	1986-up	40600	40720	88,90	1985-95	40570	40700
7.5	1955-58	40510	40720	90	1981-82,83	40570	40700
7.5	1982-83	40550	40720	100	1971,1980	40570	40700
8	1984-85	40550	40720	100	1972,1979	N/A	40710
8	1986-up	40600	N/A	100	1985-95	40570	40700
9.9	1974-88	40550	40720	110	1985-90	40570	40700
9.9	1989-up	40600	40720	115	1969,80-95	40570	40700
10	1954-63	40510	40720	115	1970,73-79	N/A	40710
14	1968	40550	40720	V-6	1976-90	40570	40700
15	1955-56	40510	40720	115	1983	40570	40700
15	1974-88	40550	40720	120	1985-90	40580	40720
15	1989-up	40600	40720	120	1985-90,1993	40580	40720
18	1957-68	40510	40720	125	1971-72	N/A	40710
20	1969-73	40560	40710	125	1993	40580	40720
20	1957-68	40510	40720	125 C	1989-95	40580	40720
20	1969-90	40560	40710	130	1995("P" only) -1999	40520	40720
25	1991-95	40580	40720	135	1973-76	N/A	40710
SAIL	1954-55	40530	40710	140	1977,80-83	40570	40700
DR	1978-90	40560	40710	140	1978-79	N/A	40710
25	1969-95	40560	40710	140	1985-91	40580	40720
25	1991-95	40580	40720	140	1993	40580	40720
28	1962-64	40530	40710	150	1979-90	40570	40700
28	1976-95	40560	40710	150	1993	40590	40720
28	1992-93	40580	40720	150	1992-93	40590	40720
30	1956	40530	40710	155	1984-93	40570	40700
30	1976-95	40560	40710	175	1977-91	40570	40700
30	1991-93	40580	40720	175	1992-93	40590	40720
33	1965-70	40530	40710	185	1984	40570	40700
35	1957-59	40530	40710	185	1989-93	40590	40720
35	1959	40530	40710	200	1976-83	40570	40700
35	1976-95	40560	40710	200	1986-90	40580	40720
35	1991-3	40580	40720	200	1992-93	40590	40720
40	1960-63,71	40530	40710	200TX	1996	40520	40720
40	1965-70,72-78	40530	40710	200/225 Loop	1997	40520	40720
40	1971-90,79-92	40560	40710	225	1986-90	40590	40720
40	1993	40580	40720	225	1992-93	40590	40720
45	1971-95	40560	40710	235	1978-84	40570	40700
45	1992	40580	40720	250	1991-93	40590	40720
48	1992-95	40580	40720	250 V6 Loop	1998-1999	40520	40720
50	1958-59	40540	40710	275/3.6 L	1985-88	40590	40720
50	1971-95	40560	40710	300	1988	40590	40720
50	1993	40580	40720	300	1991-93	40590	40720
55	1968-69,71-95	40560	40710	130/200/225/250	2000	40520	40720
55	1992	40580	40720	135/200/225/250	2001	40520	40720

Johnson / Evinrude

CARBURETOR PARTS & GASKETS

No. 23203

RETAINER
OEM: 315232



No. 77290

CARBURETOR FLOAT
OEM: 382363



No. 77300

CARBURETOR FLOAT
OEM: 391508



No. 32650

GASKET
OEM: 307583



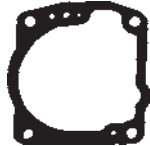
No. 33100

GASKET
OEM: 338860



No. 37790

GASKET
OEM: 335070



No. 37799

GASKET
OEM: 338883



No. 37794

GASKET
OEM: 343512



No. 37760

GASKET
OEM: 338813



No. 33120

FLOAT BOWL
OEM: 338878



No. 33130

FUEL BOWL
OEM: 338880



No. 34090

FUEL BOWL
OEM: 303750



No. 33140

CARBURETOR BOWL
OEM: 338884



No. 34831

NOZZLE & FLOAT
BOWL GASKET KIT
OEM: N/A



No. 31174

PLUG WASHER
CARB. SCREW
OEM: 317477



No. 33260

CARBURETOR BODY
OEM: 305218



Johnson / Evinrude

GASKETS			
No. 37795 COVER GASKET OEM: 334043 	No. 37796 COVER GASKET OEM: 341501 	No. 37797 COVER GASKET OEM: 340616 	No. 37840 GASKET OEM: 334353 
No. 37770 GASKET OEM: 335648 	No. 37780 GASKET OEM: 327223 	No. 37791 GASKET OEM: 341085 	No. 37792 GASKET OEM: 335115 
No. 37793 GASKET OEM: 340657 	No. 37798 GASKET OEM: 333348 	No. 34220 HOUSING TO TANK GASKET OEM: 125530 	No. 33210 FUEL TANK GASKET OEM: 302557 
No. 86654 SEAL OEM: 332253 	No. 86656 SEAL OEM: 344046 	No. 86657 SEAL OEM: 343613 	No. 86658 SEAL OEM: 335076 

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FUEL PUMP KITS & APPLICATIONS

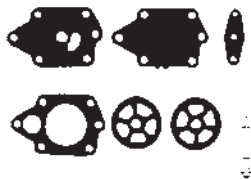
No. 40810

OEM: 393088



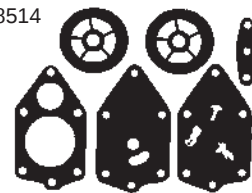
No. 40820

OEM: 393103



No. 40830

OEM: 398514



No. 40850

OEM: 438616



No. 40840

OEM: 432962



No. 40800

OEM: 379777



Model	Year	Part No.	Model	Year	Part No.	Model	Year	Part No.
2.5	1987-88	40810	30, 35	1976-86	40820	65 Comm.	1984	40820
4	1981-Up	40810	35	1958-59	40800	65 Comm.	1988-89	40830
4.0 Deluxe	1992-93	40810	40	1960-64	40800	70, 75	1982-84	40820
4.5	1981-Up	40810	40	1987	40830	70	1990	40830
5	1985-93	40810	40	1990-Up	40850	75	1960-65	40800
6	1977-Up	40810	40	1970-78	40820	80	1966-67	40800
6.5	1989-90	40810	40, 50	1988-89	40840	85	1978-83	40820
7.5	1982-83	40810	45	1958-59	40800	88	1987	40830
8	1984-93	40810	45, 48, 50	1989	40840	88, 90, 110	1988-89	40830
9.9, 15	1981	40820	45, 48, 50	1990-Up	40850	88, 90, 100, 115	1990	40830
9.9, 15	1982-Up	40810	45, 55	1985-86	40830	88, 100, 125	1990-Up	40850
9.9 Electric & 15	1987-89	40830	45, 55	1987	40830	90	1964-65	40800
9.9 Electric & 15	1990-Up	40850	45, 55 Comm.	1989-90	40830	90, 115	1978-83	40820
10/14	1989-90	40810	48	1987	40830	90, 115, 140	1982	40820
14	1988	40810	48	1988	40840	100	1966	40800
20/25	1977-86	40820	48, 50	1990	40840	100 Comm.	1989-90	40830
20-30	1990-Up	40850	50	1958-59	40800	125 Comm.	1989-90	40830
20, 25, 30	1987	40830	50	1987	40830	V4 140	1978-83	40820
20, 25, 30	1988-89	40840	50, 60	1982-84	40820	150, 175, 200	1982	40820
20, 25, 30 Rope	1990	40840	55	1983	40820	V6 150, 175	1983	40820
20, 30, 35 Remote	1990	40840	55 Comm.	1984	40820	155 Comm.	1989-90	40830
20/35 Rope	1989	40840	55-75	1970-78	40820	V6 235	1983	40820
25 Comm.	1982	40820	60	1964-67	40800	2.6	1984	40830
25 Comm.	1988-90	40840	60	1988	40830	3.0	1991-93	40810
28	1962-63	40800	65	1985-87	40820			
28	1987	40830	65	1990	40830			

KITS COMPONENTS

No. 04095

CHECK VALVE
OEM: 335334



No. 33110

FUEL PUMP
GASKET
OEM: 338876



No. 34080

FUEL PUMP
MOUNTING GASKET
OEM: 303615



No. 33370

FUEL PUMP
GASKET
OEM: 338879



No. 31172

FUEL PUMP
SCREW GASKET
OEM: 303630



Washer Fiber

No. 04092

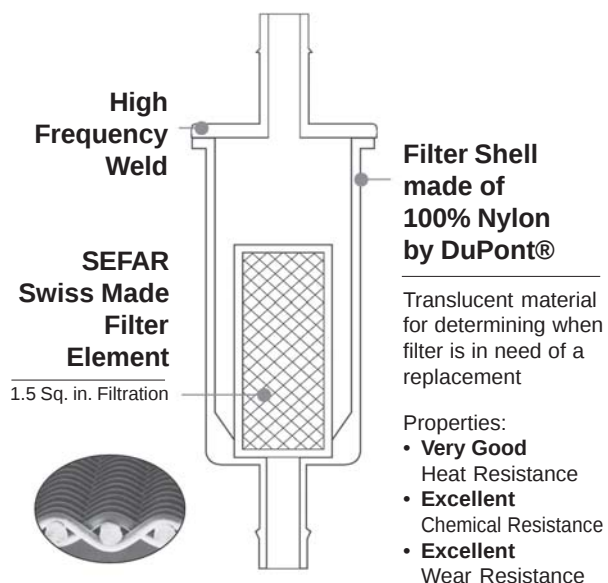
DIAPHRAGM
OEM: 331307



Johnson / Evinrude

FUEL FILTERS & KITS

GLM's PLASTIC INLINE FUEL FILTERS



No. 40135
OEM: 435918
For $\varnothing$ 5/16" In - $\varnothing$ 3/8" Out



No. 40145
OEM: 35-816296Q03
Use with $\varnothing$ 1/4" Hose



No. 40155
OEM: 35-816296Q2
Use with $\varnothing$ 5/16" Hose



No. 40165
OEM: N/A
Use with $\varnothing$ 3/8" Hose

GLM's Transparent Inline Fuel Filter

Eliminate contaminants such as dust or dirt particles. Acts not only as a blocking device, but is also a gauge to indicate filter replacement. As affordable as disposable in-line fuel filters

WARNING:
DO NOT USE ON INBOARD ENGINE APPLICATIONS



No. 40140 ($\varnothing$ 1/4")
OEM: N/A
No. 40150 ($\varnothing$ 5/16")
OEM: N/A
No. 40160 ($\varnothing$ 3/8")
OEM: N/A

Swiss Made Filter Element

No. 40000
REPLACEMENT FILTER
OEM: N/A
For No. 40140, 40150, 40160



Swiss Made Filter Element

No. 24820

CARB. FUEL FILTER
OEM: 308239



No. 24830

CARB. FUEL FILTER
OEM: 305185



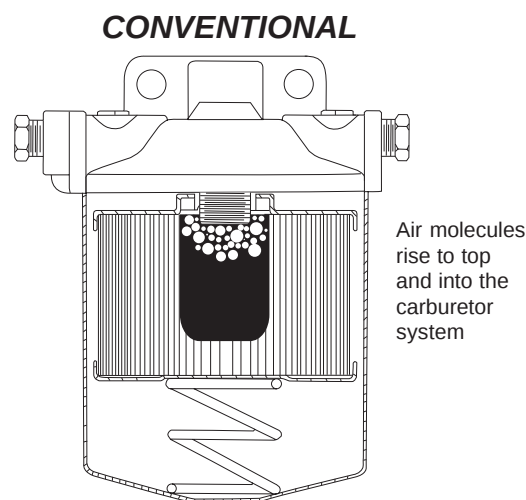
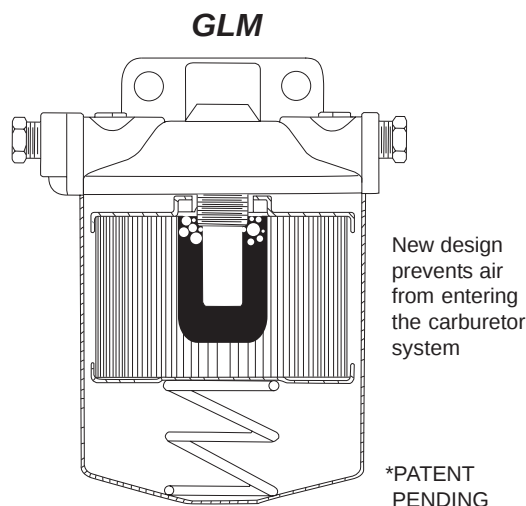
Johnson / Evinrude

ELIMINATE FUEL STARVATION WITH THE NEW GLM LOW PICK-UP WATER / FUEL SEPARATOR MOUNTING BRACKET

Engine compartment temperatures can soar on hot summer days creating high gasoline temperatures. High temps and agitation caused by rough seas can aerate the gasoline in the water/fuel separator filter turning it into foam. A fuel pump can't pull aerated gasoline from the water/fuel separator and pump it to the carburetor or fuel rail efficiently. The engine will show signs of gasoline starvation (lean) at high speeds, a situation very similar to vapor lock.

Because this aerated gasoline rises to the top of the water/fuel separator filter, GLM has introduced a water/fuel filter separator mounting bracket with a fuel pick-up extending deeper into the filter. Through extensive research and testing the GLM engineers have found the optimum location for the fuel pick-up. The deeper location is low enough to be free of aerated gasoline but high enough to be free of the water in the bottom of the separator.

The deeper fuel pick-up is only found on the new GLM water/fuel separator mounting bracket kits. It might solve some of those mysterious fuel delivery problems your engine may be experiencing!



***For trouble free boating always remember to replace your water/fuel separator filter after every 50 hours of engine operation!**

Johnson / Evinrude

HOW TO CHOOSE THE CORRECT WATER/FUEL SEPARATOR

Water/Fuel Separators are categorized by their capacity to filter different sized dirt particles. Rated in Microns, (each micron is one millionth of an inch in diameter) marine filters will normally be available with elements capable of filtering 2 micron particles, 10 micron particles, or 28 micron particles. A marine filter capable of filtering 2 micron particles will clean the fuel more efficiently than a 28 micron filter but will be more restrictive to fuel flow. The 2 micron filter will also become dirty sooner and will need replacement more often.

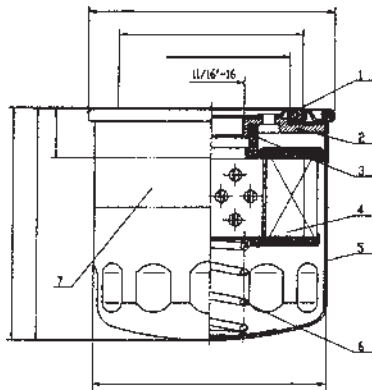
Fuel flow is rated in Gallons Per Hour (GPH). A typical 350/5.7L inboard engine will require 27 GPH at 4,800 rpm, a 454/7.4L inboard engine will require 37 GPH at 4,800 rpm. Selecting a fuel/water separator filter should be based on the amount of fuel the engine requires in GPH at wide open throttle.

A 2 micron fuel filter is generally too restrictive for the average four stroke inboard engine and may separate the

oil from the fuel in two stroke outboard engines. For this reason GLM sells only the 10 and 28 micron fuel filters.

The 28 micron filter is the most common size fuel filter in the marine industry and is the standard replacement filter for all two stroke and four stroke marine engines. The GLM 28 micron filter exceeds all engine manufacturers' specifications for particle filtering, water separating and fuel flow.

The GLM 10 micron filter will provide exceptional filtering and only moderate fuel pressure loss. When used with sufficient sized fuel lines it will flow enough fuel for inboard engines up to 550 horsepower. It will **not** separate the oil from the gasoline on a two stroke outboard equipped boat. Because a 10 micron filter clogs faster than a 28 micron filter GLM recommends it only for boaters who are vigilant in replacing the water/fuel separator filter at regular intervals.



GLM Fuel Filter Features

- * 28 or 10 micron filter paper shaped into 70 pleats total 327 sq. in. filtration. The largest filtering capability in the aftermarket. (4)
- * BWG #11 heavy duty spring (6).
- * Gasoline resistant rubber seals (1) (3).
- * Oxidizing treatment inside powder coated outside for corrosion protection (5).
- * Minimum 196N.m. torque strength between adapt plate and canister (2).
- * Will not separate 2 cycle oil from gasoline!

SUS316 Stainless Steel Brackets		Translucent Red Stainless Steel Brackets		Die Cast Aluminum Brackets	
No. 25010 w/ 2 brass plugs 2 extension tubes  NEW  ø 1/4" NPTF Ports (2 inputs & 2 outputs)	No. 25030 w/ 2 brass plugs 2 extension tubes  NEW  ø 3/8" NPTF Ports (2 inputs & 2 outputs)	No. 25011 w/ 2 brass plugs 2 extension tubes  NEW  ø 1/4" NPTF Ports (2 inputs & 2 outputs)	No. 25031 w/ 2 brass plugs 2 extension tubes  NEW  ø 3/8" NPTF Ports (2 inputs & 2 outputs)	No. 25000 w/ 2 brass plugs 2 extension tubes   ø 1/4" NPTF Ports (2 inputs & 2 outputs)	No. 25020 w/ 2 brass plugs 2 extension tubes  NEW  ø 3/8" NPTF Ports (2 inputs & 2 outputs)
No. 24942 WATER SEPARATOR FUEL FILTER OEM: N/A  10 Micron Height 4-7/16"				No. 24940 WATER SEPARATOR FUEL FILTER OEM: N/A  28 Micron Height 4-7/16"	

Johnson / Evinrude

WATER SEPARATING FUEL FILTER KITS

With Stainless Steel Bracket

No. 24956

(24940+25010)

OEM: N/A

28 Micron

ø 1/4" NPTF Ports
Flow: 50 GPH
with 2 brass plugs & 2 extension tubes



No. 24958

(24940+25030)

OEM: N/A

28 Micron

ø 3/8" NPTF Ports
Flow: 75 GPH
with 2 brass plugs & 2 extension tubes



No. 24957

(24942+25010)

OEM: N/A

10 Micron

ø 1/4" NPTF Ports
Flow: 50 GPH
with 2 brass plugs & 2 extension tubes



No. 24959

(24942+25030)

OEM: N/A

10 Micron

ø 3/8" NPTF Ports
Flow: 75 GPH
with 2 brass plugs & 2 extension tubes



With NEW! Translucent Red Stainless Steel Bracket

No. 24960

(24940+25011)

OEM: N/A

28 Micron

ø 1/4" NPTF Ports
Flow: 50 GPH
with 2 brass plugs & 2 extension tubes



No. 24962

(24940+25031)

OEM: N/A

28 Micron

ø 3/8" NPTF Ports
Flow: 75 GPH
with 2 brass plugs & 2 extension tubes



With Die Cast Aluminum Bracket

No. 24950

(24940+25000)

OEM: N/A

28 Micron

ø 1/4" NPTF Ports
Flow: 50 GPH
with 2 brass plugs & 2 extension tubes



No. 24953

(24940+25020)

OEM: N/A

28 Micron

ø 3/8" NPTF Ports
Flow: 75 GPH
with 2 brass plugs & 2 extension tubes



No. 24952

(24942+25000)

OEM: N/A

10 Micron

ø 1/4" NPTF Ports
Flow: 50 GPH
with 2 brass plugs & 2 extension tubes



No. 24954

(24942+25020)

OEM: N/A

10 Micron

ø 3/8" NPTF Ports
Flow: 75 GPH
with 2 brass plugs & 2 extension tubes



Section 14

Johnson / Evinrude Powerhead Gaskets

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Johnson / Evinrude

1 & 2-CYLINDER HEAD GASKETS

No. 33850

OEM: 313782



2 HP 1-Cyl.
(1969-1990)

No. 34010

OEM: 203130



4 HP 2-Cyl.
(1968-1980)

No. 33860

OEM: 332010



2.5, 3, 4, 4.5 HP 2-Cyl.
(1987-1998)

No. 33830

OEM: 329103



6 HP 2-Cyl.
(1959-1979)

No. 36310

OEM: 325273



6, 7.5, 8 HP 2-Cyl.
(1980-1998)

No. 34140

OEM: 330818



9.9, 15 HP 2-Cyl.
(1985-1992)

No. 36020

OEM: 338222



9.9, 15 HP 2-Cyl.
(1993-1999)

No. 35840

OEM: 319633



25, 35 HP, 2-Cyl.
(1976-1978)

No. 34570

OEM: 329419



20, 25, 28, 30, 35 HP, 2-Cyl.
(1979-2000)

No. 35990

OEM: 307069



40 HP, 2-Cyl., Crossflow
(1960-1986)

No. 34250

OEM: 335359



Large, 2-Cyl. Loopcharged
(1976-2001)

Johnson / Evinrude

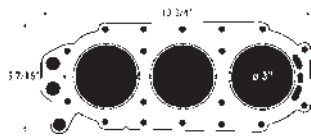
3-CYLINDER & V4 HEAD GASKETS

3-Cylinder Head Gaskets



No. 33400
OEM: 313413

Fits (1968-1989)
3-Cyl. Loopcharged
Engines with a
ø 3.000" Piston

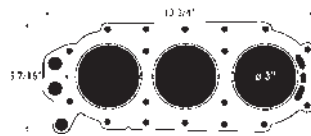


No. 35830*
OEM: 332816

Fits (1968-1989)
3-Cyl. Loopcharged
Engines with a
ø 3.000" Piston

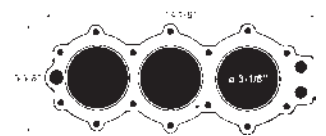
Thicker

*Same as No. 33400 except thicker to lower cylinder compression for low octane fuel.



No. 34280
OEM: 329836

Fits (1986-2001)
3-Cyl. Loopcharged
Engines with a
ø 3.1875" Piston

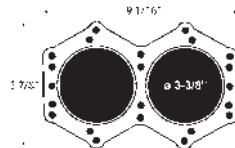


V4 Head Gaskets



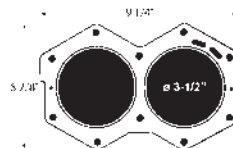
No. 34030
OEM: 306048

Fits (1968-1972)
90° V4 Crossflow
Engines with a
ø 3.375" Piston



No. 33540
OEM: 318358

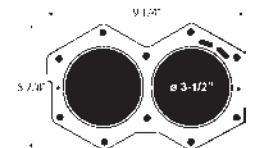
Fits (1973-1994)
90° V4 Crossflow
Engines with a
ø 3.500" Piston



No. 35820*
OEM: 332819

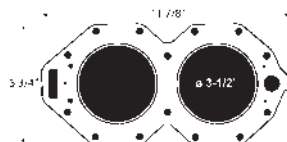
Fits (1973-1994)
90° V4 Crossflow
Engines with a
ø 3.500" Piston

*Same as No. 33540 except thicker to lower cylinder compression for low octane fuel.



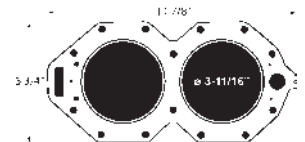
No. 34400
OEM: 328623

Fits (1985-1987)
90° V4 Loopcharged Engines
with a ø 3.500" Piston



No. 35930
OEM: 340115

Fits (1988-1999)
90° V4 Loopcharged Engines
with a ø 3.6875" Piston



Johnson / Evinrude

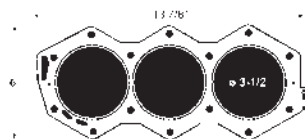
V6 & V8 HEAD GASKETS



No. 33870

OEM: 335360

Fits (1976-1991)
90° V6 Crossflow Engines
with a $\varnothing$ 3.500" Piston



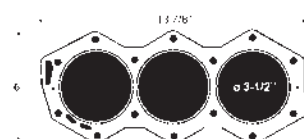
No. 35940*

OEM: 332817

Fits (1976-1991)
90° V6 Crossflow Engines
with a $\varnothing$ 3.500" Piston

Thicker

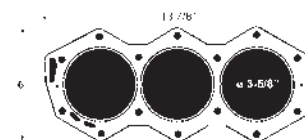
*Same as No. 33870
except thicker to lower
cylinder compression
for low octane fuel.



No. 34240

OEM: 335361

Fits (1980-1991)
90° V6 Crossflow Engines
with a $\varnothing$ 3.625" Piston



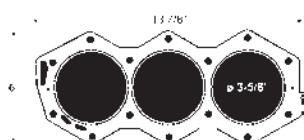
No. 35960*

OEM: 332818

Fits (1980-1991)
90° V6 Crossflow Engines
with a $\varnothing$ 3.625" Piston

Thicker

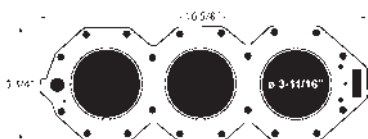
*Same as No. 34240
except thicker to lower
cylinder compression
for low octane fuel.



No. 34590

OEM: 333670

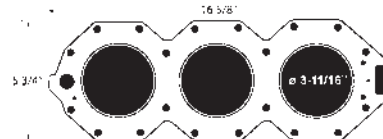
Fits (1988-1992)
90° V6 Loopcharged Engines
with a $\varnothing$ 3.6875" Piston



No. 36320

OEM: 345257

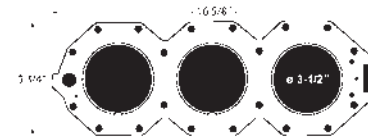
Fits (1994-2001)
90° V6 Loopcharged
with a $\varnothing$ 3.6875" Piston



No. 35950

OEM: 331211

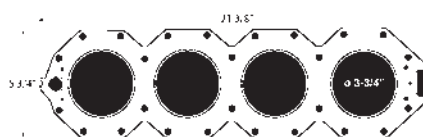
Fits (1985-1987)
90° V6 Loopcharged Engines
with a $\varnothing$ 3.500" Piston



No. 35970

OEM: 340116

Fits (1994-1998)
90° V8 Loopcharged Engines
with a $\varnothing$ 3.6875" Piston



Johnson / Evinrude

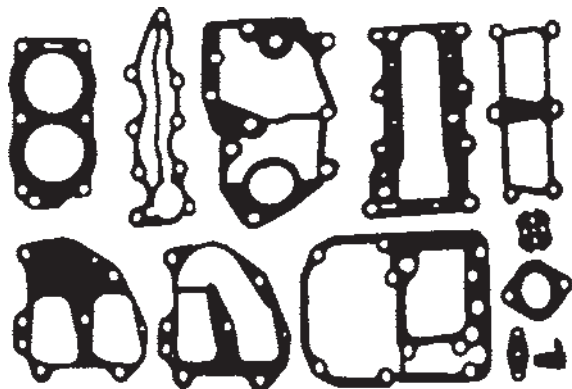
HEAD GASKETS APPLICATIONS					
1974 and Later Models			Fast Moving Gaskets for Older Models		
Model	Year	GLM No.	Model	Year	GLM No.
2 Colt, Junior ®	1969-90	33850	5, 5.5, 6	1959-73	33830
2.3, 3.3, 3.5	1991-Up	-	9.5	1964-73	-
4	1968-80	34010	33	1965-70	-
2.5, 3, 4, 4.5, Ultra, Excel 4	1981-98	33860	40	1960-73	35990
6 (145cc)	1959-79	33830	50, 60, 65	1958-68	-
6, 7.5, 8 (164cc)	1980-98	36310	55, 60, 65	1968-73	33400
9.9, 15 (216cc)	1974-92	34140	60, 65	1970-73	35830
9.9, 15 (255cc)	1993-99	36020	75, 80, 85, 90, 100, 115	1960-70	34030
25 (361cc)	1974-76	-	125	1971-72	-
25 (521cc)	1977-78	35840	115, 135	1973	33540
35 (521cc)	1976-78	35840			
20, 25, 28, 30, 35 (521cc)	1979-00	34570			
40, 40 Comm. (719cc)	1968-86	35990			
50 (680cc)	1974-75	-			
40, 45, 48, 50, 55, 60 (737cc)	1976-01	34250			
60 3-Cyl. (814cc)	1986-89	33400			
60 3-Cyl. (913cc)	1974-85	33400			
70 3-Cyl. (814cc)	1989-01	34280			
70 3-Cyl. (913cc)	1986-01	34280			
75 3-Cyl. (814cc)	1975-89	33400			
75 3-Cyl. (814cc) Low Octane	1975-78	35830			
85 V4 Crossflow	1974-78	-			
115, 135, 140 V4 Crossflow	1973-78	33540			
85, 88, 90, 100, 110, 115 V4 Crossflow	1978-94	33540			
115 V4 Crossflow	1985	35820			
135, 140 V4 Crossflow	1973-84	35820			
140 V4 Crossflow	1977-84	33540			
120, 140, V4 Loopcharged	1985-87	34400			
120, 130, 140 V4 Loopcharged, 2 L	1988-99	35930			
150, 155, 175, 185, 200 Crossflow	1976-91	33870			
150, 155, 175, 185, 200 Crossflow	1976-91	35940			
175 V6 Crossflow	1986-92	34240			
200, 225 V6 Loopcharged	1986-87	35950			
200, 225 Loopcharged V6, 3 L	1988-93	34590			
200, 225, 250 V6 Loopcharged, 3L	1994-01	36320			
235 V6 Crossflow	1978-79	33870			
235 V6 Crossflow	1980-85	34240			
235 V6 Crossflow	1978-79	35940			
235 V6 Crossflow	1980-85	35960			
2.6 XP-GT V6 Crossflow	1983-85	-			
2.6 XP-GT V6 Crossflow	1983-85	35960			
275, 3.6 L V8 Loopcharged	1985-87	-			
250, 275, 300 V8 Loopcharged, 4 L	1988-93	35970			
300 V8 Loopcharged, 4 L	1993-94	35970			

Johnson / Evinrude

POWERHEAD GASKET KITS

No. 39380

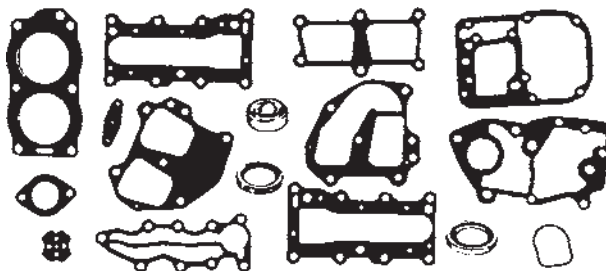
OEM: 394546



9.9-15 HP
(1984-1992)

No. 39353

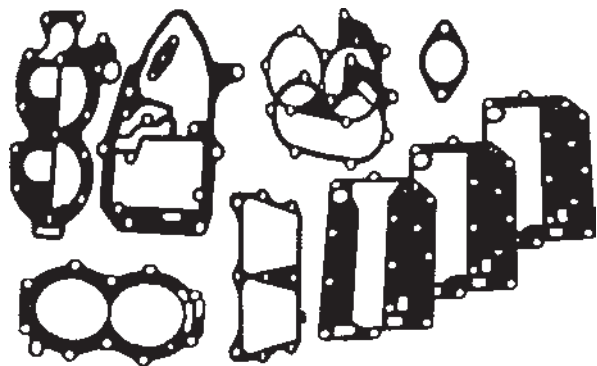
OEM: 436358



9.9-15 HP
(1993-1999)

No. 39420

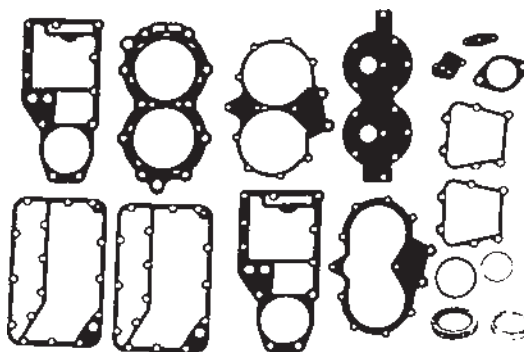
OEM: 433941



20, 25, 30 HP, Crossflow
(1996-1999)

No. 39355

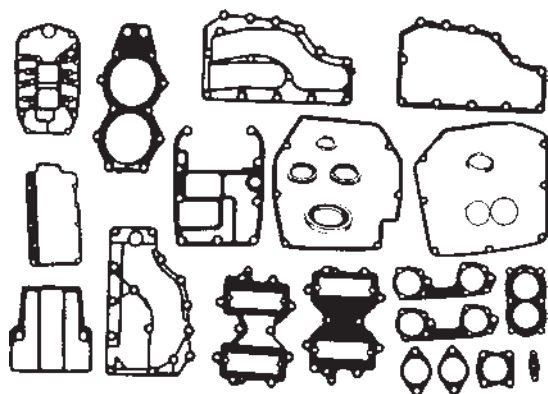
OEM: 390700



40 HP Comm., Crossflow
(1983-1986)

No. 39370

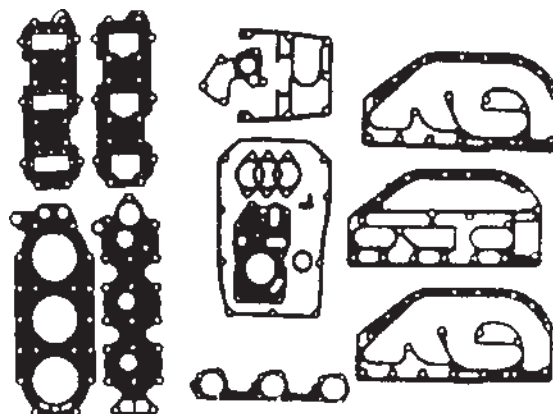
OEM: 439083



40-60 HP, 2-Cyl. Loopcharged
(1998-2001)

No. 39350

OEM: 390078



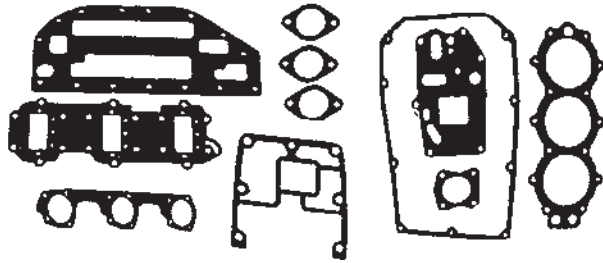
60-70 HP, 3-Cyl.
(1979-1988)

Johnson / Evinrude

POWERHEAD GASKET KITS

No. 39390

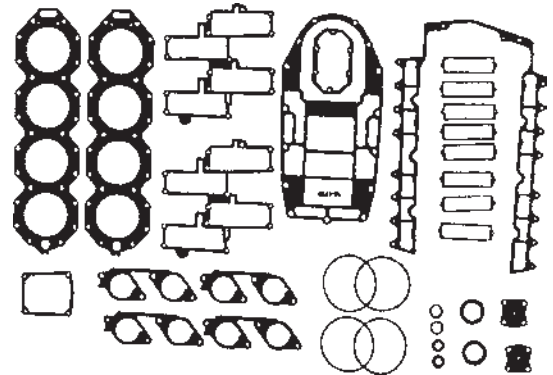
OEM: 438904



60-70 HP, 3-Cyl.
(1986-2001)

No. 39070

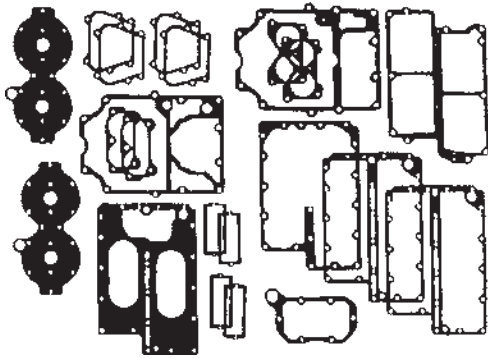
OEM: 398693



V8 250, 275 HP, 300 Special
(1994-1998)

No. 39360

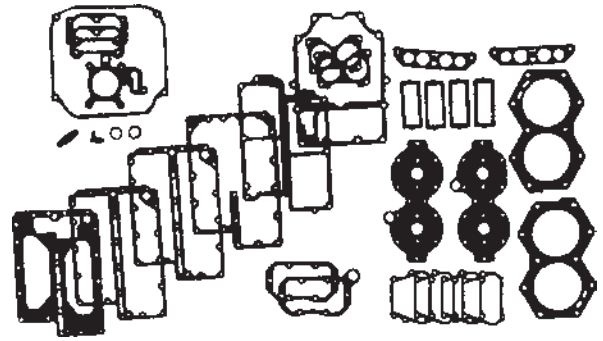
OEM: 388602



90° V4 Crossflow
(1973-1977)

No. 39080

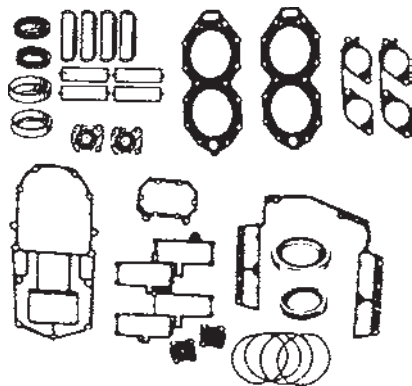
OEM: 439085



90° V4 Crossflow
(1978-1994)

No. 39354

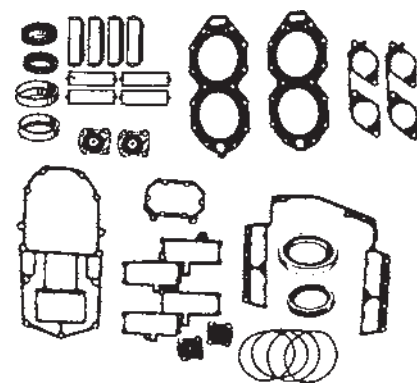
OEM: 396750



90° V4 Loopcharge 120-140 HP
(1985-1987)

No. 39400

OEM: 432570



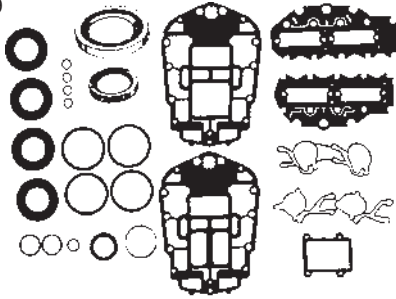
90° V4 Loopcharge 120-140 HP
(1988-1999)

Johnson / Evinrude

POWERHEAD GASKET KITS

No. 39351

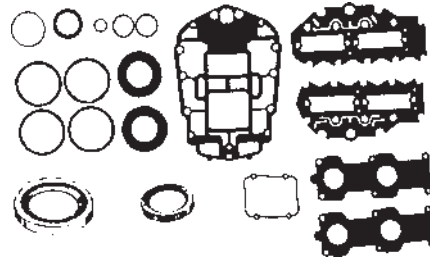
OEM: 439559



60° V4 Loopcharged, Carb., 90-115 HP
(1995-UP)

No. 39356

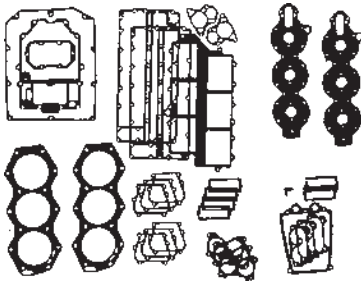
OEM: 5000400



60° V4 Loopcharged, EFI, 90-115 HP
(1998-UP)

No. 39090

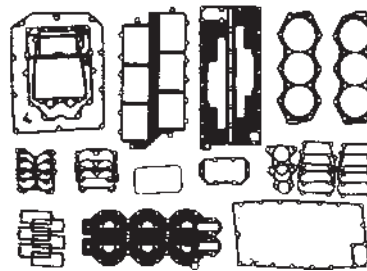
OEM: 391988



V6 Crossflow All (Except 175-235 HP 1980-1991)
(1978-1991)

No. 39430

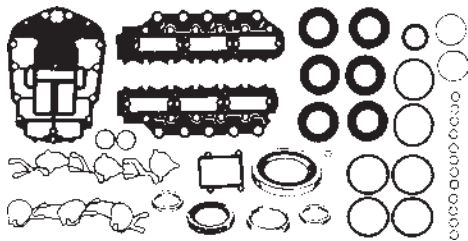
OEM: 434381



V6 Crossflow
175, 235 HP (1980-1991)

No. 39352

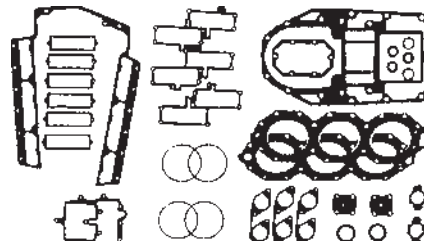
OEM: 437155



60° V6 Loopcharged, Carb., 150-175 HP
(1991-1999)

No. 39930

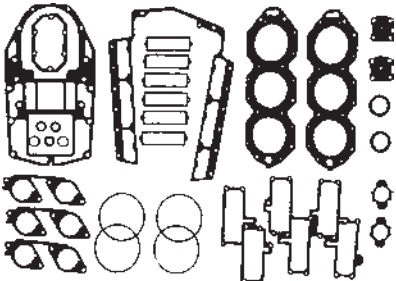
OEM: 398172



90° V6 Loopcharged, Carb., 200, 225 HP
(1986-1987)

No. 39410

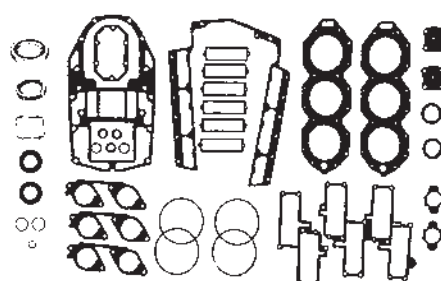
OEM: 436891



90° V6 Loopcharged, Carb., 200-225 HP
(1988-1993)

No. 39510

OEM: 437725



90° V6 Loopcharged, Carb., 200, 225, 250 HP
(1994-2001)

Johnson / Evinrude

POWERHEAD GASKET KITS APPLICATIONS					
Model	Year	GLM No.	Model	Year	GLM No.
2-Cylinder			V4 90° Loopcharged		
2 Colt, Junior®	1985-88	-	120-140	1985-87	39354
2 Colt, Junior®	1989-90	-	120-140	1988-94	39400
4	1978-82	-	130	1995	39400
2.5, 4, 4.5, Ultra or Excel 4	1983-87	-	V4 60° Loopcharged		
2.5, 4, 4.5, Ultra or Excel 4	1988-90	-	90-115 V4 60°	1995-Thru	39351
3, 4	1991-Thru	-	90-115 FFI	1998-Thru	39356
5, 6	1984-90	-	V6 90° Crossflow		
5, 6, 8	1991-Thru	-	150	1978-91	39090
6	1972-79	-	155	1986-91	39090
6, 7.5	1981-83	-	175	1977-85	39090
8	1980-83	-	185	1984-85	39090
8	1984-90	-	200	1976-83	39090
9.9, 15	1974-92	39380	235	1978-79	39090
9.9, 15	1993-Thru	39353	175	1986-91	39430
18	1970-73	-	235	1980-85	39430
25	1973-76	-	235	1983-85	-
25	1977-78	-	V6 60° Loopcharged		
20, 25, 28, 30	1979-Thru	39420	150-175 V6 60°	1991-Thru	39352
35	1979-86	39420	150-175 FFI	1997-98	-
40	1970-71	-	150-175 FFI	2000-Thru	-
40 Comm.	1987-91	39355	V6 90° Loopcharged		
40, 45, 48, 55	1980-Thru	39370	200, 225	1985-87	39930
50	1971-75	39370	200, 225	1988-1993	39410
55	1976	39370	200, 225	1994-01	39510
55	1977-79	39370	V8		
50	1980	39370	275, 3.6 L	1985-87	-
55, 60	1980-85	39370	250, 275, 300 Special	1988-Thru	39070
3-Cylinder			200-250 FFI	2001	-
50	1995	39390			
60	1986-88	39350			
60	1989-Thru	39390			
65 Use 33400 HD Gskt, Plus P/N	1972-73	39350			
65	1984-86	39350			
65	1987-Thru	39390			
70	1974-85	39350			
70	1986-Thru	39390			
V4 Crossflow					
85	1973-77	39360			
115, 135, 140 Use 33540 HD Gskt, Plus P/N	1973-77	39360			
85	1978	-			
85, 88, 90, 110, 115	1979-Thru	39080			
100, 115, 140	1978-84	39080			
115	1985	39080			

Johnson / Evinrude

POWERHEAD MOUNTING GASKETS

No. 35190

POWERHEAD MOUNTING
GASKET
OEM: 324717



9.9, 15 HP (1972-1985)

No. 33080

POWERHEAD MOUNTING
GASKET
OEM: 325721



9.9, 15 HP (1986-Up)

No. 33430

POWERHEAD MOUNTING
GASKET
OEM: 314421



18, 25 HP

No. 33190

POWERHEAD MOUNTING
GASKET
OEM: 319348



28, 33, 40 HP

No. 34350

POWERHEAD MOUNTING
GASKET
OEM: 319710



25, 35 HP (1976-1978)

No. 33710

POWERHEAD MOUNTING
GASKET
OEM: 330621



25, 35 HP (1979-Up)

No. 35340

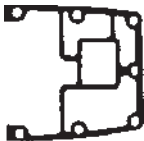
POWERHEAD MOUNTING
GASKET
OEM: 351018



2-Cyl., Loopcharged

No. 35430

POWERHEAD MOUNTING
GASKET
OEM: 329828



3-Cyl., 60, 70 HP

No. 33410

POWERHEAD MOUNTING
GASKET
OEM: 313763



3-Cyl.

Thin Gasket

No. 34550

POWERHEAD MOUNTING
GASKET
OEM: 328618

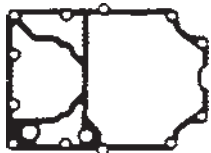


3-Cyl.

Thick Gasket

No. 34880

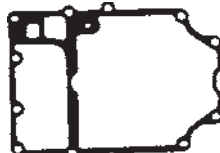
POWERHEAD MOUNTING
GASKET
OEM: 318373



90° V4 Crossflow (1973-1977)

No. 33640

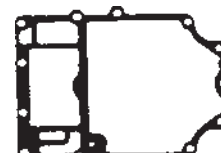
POWERHEAD MOUNTING
GASKET
OEM: 342513



90° V4 Crossflow (1978-1997)

No. 34460

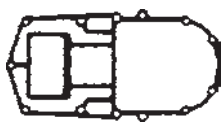
POWERHEAD MOUNTING
GASKET
OEM: 323214



90° V6 Crossflow

No. 35370

POWERHEAD MOUNTING
GASKET
OEM: 328590



90° V4 Loopcharged

No. 35790

POWERHEAD MOUNTING
GASKET
OEM: 335503



90° V6 Loopcharged

No. 35780

POWERHEAD MOUNTING
GASKET
OEM: 333879



90° V6 Loopcharged

No. 35460

POWERHEAD MOUNTING
GASKET
OEM: 329975



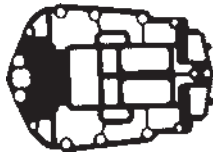
90° V8 Loopcharged

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POWERHEAD MOUNTING GASKETS

No. 36500

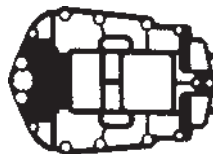
POWERHEAD MOUNTING GASKET
OEM: 343853



60° V4 (1997)

No. 36510

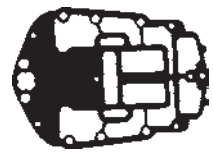
POWERHEAD MOUNTING GASKET
OEM: 344386



60° V4 (1998-Up)

No. 36560

POWERHEAD MOUNTING GASKET
OEM: 335419



60° V6

INTERMEDIATE HOUSING EXHAUST GASKETS

No. 35360

INTERMEDIATE HOUSING
EXHAUST GASKET
OEM: 351019



2-Cyl., Loopcharged

No. 35420

EXHAUST RELIEF COVER
OEM: 329826



2-Cyl., Loopcharged
Exhaust Relief Cover

No. 34600

INTERMEDIATE HOUSING
EXHAUST GASKET
OEM: 331016



3-Cyl. (1972-1985)

No. 35810

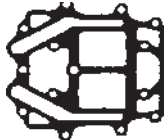
INTERMEDIATE HOUSING
EXHAUST GASKET
OEM: 336308



3-Cyl., 60, 70 HP (1986-UP)

No. 34500

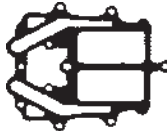
INTERMEDIATE HOUSING
EXHAUST GASKET
OEM: 324516



90° V6 Crossflow

No. 33670

INTERMEDIATE HOUSING
EXHAUST GASKET
OEM: 323292



90° V6 Crossflow

No. 35680

INTERMEDIATE HOUSING
EXHAUST GASKET
OEM: 331585



90° V6 Crossflow

No. 34470

INTERMEDIATE HOUSING
EXHAUST GASKET
OEM: 323222



90° V4, V6 Crossflow

No. 34490

INTERMEDIATE HOUSING
EXHAUST GASKET
OEM: 323459



90° V4 Crossflow

No. 35770

INTERMEDIATE HOUSING
EXHAUST GASKET
OEM: 343809



90° V6 Loopcharged

No. 35760

INTERMEDIATE HOUSING
EXHAUST GASKET
OEM: 333564



90° V6 Loopcharged

SEALS - EXHAUST HOUSING

No. 85830

SEAL - EXHAUST HOUSING
OEM: 320936



No. 85840

SEAL - EXHAUST HOUSING
OEM: 320961



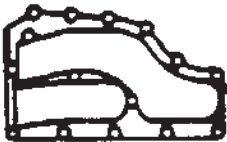
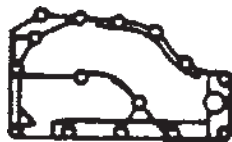
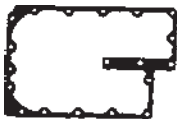
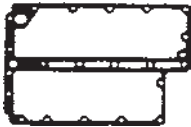
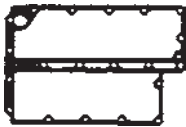
No. 86210

SEAL - EXHAUST HOUSING
OEM: 324937



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POWERHEAD EXHAUST GASKETS

No. 33170 POWERHEAD EXHAUST GASKET OEM: 313065  5,5,5,6 HP	No. 35200 POWERHEAD EXHAUST GASKET OEM: 325211  5, 5.5, 6 HP	No. 34320 POWERHEAD EXHAUST GASKET OEM: 318925  9.9, 15 HP	No. 33690 POWERHEAD EXHAUST GASKET OEM: 324323  25, 35 HP
No. 35330 POWERHEAD EXHAUST GASKET OEM: 326264  2-Cyl. Crossflow	No. 33230 POWERHEAD EXHAUST GASKET OEM: 304762  2-Cyl. Crossflow	No. 34800 POWERHEAD EXHAUST GASKET OEM: 315868  2-Cyl. Loopcharged	No. 34850 POWERHEAD EXHAUST GASKET OEM: 315869  2-Cyl. Loopcharged
No. 34610 POWERHEAD EXHAUST GASKET OEM: 331916  3-Cyl.	No. 34620 POWERHEAD EXHAUST GASKET OEM: 331917  3-Cyl.	No. 35450 POWERHEAD EXHAUST GASKET OEM: 343863  3-Cyl., 60-70 HP	No. 34300 POWERHEAD EXHAUST GASKET OEM: 317955  90° V4 Crossflow
No. 34290 POWERHEAD EXHAUST GASKET OEM: 317914  90° V4 Crossflow	No. 33240 POWERHEAD EXHAUST GASKET OEM: 305176  90° V4 Crossflow	No. 33680 POWERHEAD EXHAUST GASKET OEM: 323469  90° V4 Crossflow	No. 33510 POWERHEAD EXHAUST GASKET OEM: 318156  90° V4 Crossflow
No. 34650 POWERHEAD EXHAUST GASKET OEM: 393561  90° V6 Crossflow, 235 HP	No. 33620 POWERHEAD EXHAUST GASKET OEM: 321435  90° V6 Crossflow	No. 33590 POWERHEAD EXHAUST GASKET OEM: 321182  90° V6 Crossflow	No. 32560 POWERHEAD EXHAUST GASKET OEM: 336430  90° V6 Crossflow

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POWERHEAD WATER PASSAGE COVER GASKETS

No. 34870

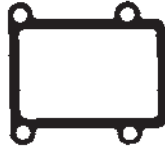
WATER PASSAGE
COVER GASKET
OEM: 317951



V4/V6

No. 36540

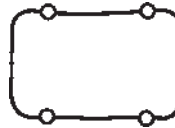
REGULATOR MOUNT GASKET
OEM: 342291



60° V4/V6

No. 86214

REGULATOR MOUNT GASKET
OEM: 3010036



60° V4/V6 (1997-2000)

No. 35470

REGULATOR MOUNT GASKET
OEM: 344472



90° V4/V6

No. 34450

WATER PASSAGE
COVER GASKET
OEM: 322858



V4/V6

No. 35760

WATER PASSAGE
COVER GASKET
OEM: 333564



No. 34580

WATER PASSAGE
COVER GASKET
OEM: 329920



9.9, 15 HP

No. 34780

WATER PASSAGE
COVER GASKET
OEM: 315538



50, 55 HP

No. 33700

WATER PASSAGE
COVER GASKET
OEM: 327674



25, 35 HP

No. 33560

WATER PASSAGE
COVER GASKET
OEM: 319665



25, 35 HP

No. 36640

WATER PASSAGE
COVER GASKET
OEM: 318962



2-Cyl. Loopcharged

No. 33530

WATER PASSAGE
COVER GASKET
OEM: 318335



V4

No. 34310

WATER PASSAGE
COVER GASKET
OEM: 318609



3-Cyl.

No. 34370

WATER PASSAGE
COVER GASKET
OEM: 321028



V6

POWERHEAD TRANSFER PORT GASKETS - CROSSFLOW ENGINES

No. 34990

TRANSFER PORT
COVER GASKET
OEM: 319332



9.9, 15 HP

No. 34340

TRANSFER PORT
COVER GASKET
OEM: 319661



25, 35 HP

No. 33280

TRANSFER PORT
COVER GASKET
OEM: 307133



90° V4

No. 36630

TRANSFER PORT
COVER GASKET
OEM: 304784



2-Cyl.

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CARBURETOR TO INTAKE MANIFOLD GASKETS

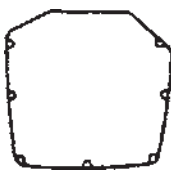
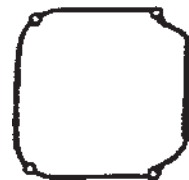
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No. 35750 THROTTLE BODY TO MANIFOLD GASKET OEM: 332319 	No. 34530 CARB. TO MANIFOLD GASKET OEM: 326926  3-Cyl.	No. 34860 CARB. TO MANIFOLD GASKET OEM: 317305  3-Cyl.	No. 36620 THROTTLE BODY GASKET OEM: 344526  60° EFI
No. 86211 PORT INTAKE TO CARB. GASKET OEM: 335818 O-Ring  60° V4	No. 86212 STARBOARD INTAKE TO CARB. GASKET OEM: 335819  60° V4	No. 86650 PORT INTAKE TO CARB. GASKET OEM: 335403  60° V6	No. 86651 STARBOARD INTAKE TO CARB. GASKET OEM: 335404  60° V6

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INTAKE MANIFOLD GASKETS / REED PLATE GASKETS			
No. 34970 REED PLATE GASKET OEM: 318924  9.9, 15 HP	No. 35320 REED PLATE GASKET OEM: 325260  9.9, 15 HP	No. 34390 REED PLATE GASKET OEM: 321479  25, 35 HP	No. 33090 REED PLATE GASKET OEM: 326260  25, 35 HP
No. 36660 REED PLATE GASKET OEM: 311364  2-Cyl. Loopcharged	No. 36670 REED PLATE GASKET OEM: 311365  2-Cyl. Loopcharged	No. 34790 INTAKE MANIFOLD GASKET OEM: 315578  2-Cyl. Loopcharged	No. 35800 INTAKE MANIFOLD GASKET OEM: 335633  2-Cyl. Loopcharged
No. 33180 INTAKE MANIFOLD GASKET OEM: 319174  90° V4 Crossflow	No. 33610 INTAKE MANIFOLD GASKET OEM: 329718  90° V6 Crossflow	No. 35390 INTAKE MANIFOLD GASKET OEM: 328622  90° V4/V6 Loopcharged	No. 35540 INTAKE MANIFOLD GASKET OEM: 331532  90° V6 Loopcharged
No. 36520 PORT INTAKE MANIFOLD GASKET OEM: 336388  60° V4	No. 36530 STARBOARD INTAKE MANIFOLD GASKET OEM: 336389  60° V4	No. 36570 PORT INTAKE MANIFOLD GASKET OEM: 336226  60° V6	No. 36580 STARBOARD INTAKE MANIFOLD GASKET OEM: 336227  60° V6
No. 35400 REED BOX GASKET OEM: 328626  90° V4/V6 Loopcharged	No. 35740 REED BOX GASKET OEM: 332266  90° V4/V6 Loopcharged	No. 33660 REED BOX GASKET OEM: 321907  90° V4/V6 Crossflow	No. 36650 REED PLATE OEM: 317254  2-Cyl. Crossflow

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AIR SILENCER GASKETS

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No. 35180 AIR SILENCER GASKET OEM: 321497 	No. 34420 AIR SILENCER GASKET OEM: 333008  3-Cyl.	No. 34640 AIR SILENCER GASKET OEM: 314115  70, 75 HP	No. 35380 AIR SILENCER GASKET OEM: 328604 
No. 35490 AIR SILENCER GASKET OEM: 330909 	No. 35000 AIR SILENCER GASKET OEM: 320679 	No. 35480 AIR SILENCER GASKET OEM: 330698 	
No. 34430 AIR SILENCER GASKET OEM: 321794  3-Cyl.	No. 33630 AIR SILENCER GASKET OEM: 321722  V4	No. 34380 AIR SILENCER GASKET OEM: 321183  V6	No. 34740 AIR SILENCER GASKET OEM: 314322  70, 75 HP
No. 35350 COVER TO BASE GASKET OEM: 327236  V6	No. 35730 COVER TO BASE GASKET OEM: 331598  V6	No. 35500 COVER TO BASE GASKET OEM: 331101  V4	

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18-3836	34280	159,161
18-3837	34400	159,161
18-3838	35950	160,161
18-3839	34590	160,161
18-3841	34010	158,161
18-3866	35930	159,161
18-3895	35830	159,161
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18-3898	35820	159,161
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18-3910	24240	113,115
18-3911	24260	113,115
18-3912	24280	113,115
18-3913	24310	114,116
18-3915	24330	114,116
18-3931	23710	112
18-3932	23720	112
18-3933	23730	112
18-3974	24290	123
18-3975	24250	123
18-4039	16200	131
18-4040	22500	131
18-4055	14600	120
18-4056	14610	120
18-4059	14640	120
18-4060	14650	120
18-4065	24050	123
18-4066	24100	123
18-4067	24090	123
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18-4100	24030	118
18-4101	23850	122
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18-4104	24080	115
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18-4107	23910	113
18-4110	24020	118
18-4111	23830	122
18-4112	23820	122
18-4113	23950	119
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18-4116	24420	112
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18-4126	24430	112
18-4127	23930	113
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18-4228	22250	19,21,23,25,102,104
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18-4230	22240	19,21,102,104
18-4231	22190	103,104
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18-4276	22321	13,96
18-4277	22324	11,21,83,96
18-4300	39350	162,165
18-4301	39360	163,165
18-4303	39080	163,165
18-4304	39090	164,165
18-4305	39370	162,165
18-4306	39380	162,165
18-4307	39420	162,165
18-4308	39930	164,165
18-4309	39430	164,165
18-4310	39354	163,165
18-4320	39070	163,165
18-4321	39390	163,165
18-4322	39400	163,165
18-4323	39410	164,165
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18-5001	72840	142
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18-5011	72800	142
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18-5156	70070	142
18-5157	70080	142
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18-5199	70570	142
18-5200	70590	142
18-5205	70640	142
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18-6026	12738	21,106
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18-7104	82280	13
18-7105	80180	15,81
18-7106	32650	150
18-7108	81450	15
18-7115	82240	21,64
18-7116	81100	23,67
18-7118	82030	11
18-7127	82370	23,25,67,68
18-7128	81340	23,64
18-7130	81380	23,25,65
18-7133	82400	69
18-7134	81120	21,83
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18-7137	45200	19,21,23,25
18-7139	83200	13,79
18-7140	82320	21,66,67
18-7143	81250	19,25,84,89,90,91
18-7144	82440	68
18-7145	81080	17
18-7146	81220	81,85
18-7155	82230	58
18-7158	81160	89,90,91
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18-7172	82360	19,66
18-7173	82250	19,64
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18-7210	77290	150
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18-7296	23203	150
18-7411	81240	17
18-7440	81170	17,81,137
18-7461	81290	137
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172522	72810	142
172523	72820	142
172525	72840	142
172806	72830	142
173029	12730	13,106
175266	22200	103
175267	22340	102
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202893	80120	79
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300611	89594	13,78,79,82,92
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301967	81170	17,81,137
302035	82120	23,25,89,90,91
302325	22360	13,17,19,79,81,83,84
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302557	33210	151
302588	82240	21,64
302804	22100	104
303067	81100	23,67
303069	12552	84
303347	81110	15
303615	34080	152
303630	31172	152
303750	34090	150
304023	33220	61
304026	86483	81
304762	33230	168
304764	34120	61
304784	36630	169
305123	82400	69
305176	33240	168
305185	24830	153
305196	33250	140
305218	33260	150
305242	82030	11
305270	82230	58
305282	22329	19,21
305512	33200	61
305586	34150	140
305739	80100	21
305749	28353	25
305762	86140	21,96
306048	34030	159,161
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307552	31170	11,13,23
307583	32650	150
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308328	33290	140
308458	81290	137
308627	82280	13
308928	89595	23,80,82,83,86,88,92
309044	86110	17
309204	34200	96
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309955	22110	104
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310433	22700	130
310584	82100	19,84
310585	81160	89,90,91
311145	34000	140
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311364	36660	171
311365	36670	171
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312456	24880	153
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313445	21774	23,67
313446	82370	23,25,67,68
313447	21641	23,67
313448	21135	23,25,59
313715	22368	23,25
313754	81340	23,64
313763	33410	166
313782	33850	158,161
314008	86490	25,27,85,86,89,90,91
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314322	34740	172
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314438	90350	108
314502	22120	19,21,23,25,102,104
314503	22150	19,21,23,25,102,104
314728	81380	23,25,65
314730	11190	25
314731	21642	25,67,68,69
314745	23510	25,65
314876	33450	60
315052	33460	170
315232	23203	150
315538	34780	169
315578	34790	171
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315837	86494	21,83
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317232	23620	23,64
317245	46150	137,138
317254	36650	171
317305	34860	170
317477	31174	150
317624	22362	19,23,25,64,65
317914	34290	168
317951	34870	169
317955	34300	168
318156	33510	168
318303	22673	23,48,59
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318358	33540	159,161
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318373	34880	137,166
318395	46170	137,139
318544	21731	11,19,23,25
318609	34310	169
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318924	34970	171
318925	34320	168
318932	34980	170
318962	36640	169
318966	22241	104
318971	22160	13,104
318972	86120	13,79
318995	12610	13,79,93
319085	83200	13,79
319174	33180	171
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319276	12950	23,85,86
319332	34990	169
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319586	34330	23,86
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319891	22170	15,104
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320041	22400	21,23,67
320145	21105	25,23,58,59
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320167	23540	21,64
320168	23550	21,64
320303	82320	21,66,67
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320936	85830	25,167
320943	86480	25,89,90,91
320961	85840	25,167
320981	12620	21,83,93
321008	86500	25,89,90,91
321027	46180	137,139
321028	34370	169
321120	86130	96,137
321182	33590	168
321183	34380	172
321184	33600	137,140
321220	46160	139
321221	46140	137,139
321222	46120	137,139
321435	33620	168
321453	85120	15
321459	86150	17,81
321466	86160	21,64
321467	86060	19,21,66
321479	34390	171
321480	86170	13
321481	86180	13,81
321497	35180	172
321692	86481	137,139
321722	33630	172
321738	34410	13,15,60
321786	86420	17
321787	86190	17
321794	34430	172
321886	10561	85,139
321907	33660	171
321928	86200	15
321932	34440	137,140
322494	81370	11
322501	81250	19,25,84,89,90,91
322858	34450	169
322938	27740	60
322941	27710	25,59,60
323214	34460	166
323222	34470	167
323292	33670	167
323338	34480	172
323361	23580	25,65
323362	23590	25,65
323459	34490	167
323469	33680	168
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323626	22380	96
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323889	23600	23,64
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323942	22255	13,104
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324037	27741	23,25,59
324097	12813	13,79,94

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324640	12555	79,93
324641	12818	11,79,94
324717	35190	166
324766	21644	23,25,67,68
324852	22394	19
324937	86210	21,23,167
324960	22361	15
324981	86570	19,23,84,85,86
325040	36810	11,79
325092	33740	170
325211	35200	168
325229	36860	81
325260	35320	171
325273	36310	158,161
325397	12816	81,94
325398	12564	81,93
325399	36850	81
325535	34510	96
325537	34520	15,81,85
325721	33080	166
326260	33090	171
326264	35330	168
326649	81140	84,85,86
326668	27711	59
326670	27722	59
326849	82440	68
326926	34530	170
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327223	37780	151
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327656	21645	25,65
327669	21646	68,69
327674	33700	169
327707	34540	170
328096	22366	21,23
328590	35370	166
328604	35380	172
328618	34550	166
328622	35390	171
328623	34400	159,161
328626	35400	171
328725	22351	11,84,85
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328744	22395	11,19
328751	12812	15,17,81,85,94
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328754	21427	15,81,85
328755	12630	15,81,85,93
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329828	35430	166
329830	35440	84,85,137,140
329836	34280	159,161
329920	34580	169
329975	35460	166
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330327	86270	17
330560	12440	17,81,95
330621	33710	166
330698	35480	172
330818	34140	158,161
330909	35490	172
331016	34600	167
331101	35500	172
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331211	35950	160,161
331353	86660	23,25,89,90,91
331532	35540	171
331585	35680	167
331598	35730	172
331880	21138	21,23,25,59,60
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331979	22323	96
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332000	86540	96
332010	33860	158,161
332108	34630	140
332130	36590	140
332205	86460	21,64
332253	86654	151
332261	86520	15
332266	35740	171
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332369	33650	137,140
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332583	86640	67
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332816	35830	159,161
332817	35940	160,161
332818	35960	160,161
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333771	21649	19,64
333780	27942	19
333858	11054	85,138
333879	35780	166
333957	27850	25,68,69
334043	37795	151
334163	27730	21,23,25,59,60
334353	37840	151
334590	22242	13,104
334897	89592	19,23,82,84,85,86
334950	86810	68,69
335070	37790	150
335076	86658	151
335115	37792	151
335334	04095	152
335359	34250	158,161
335360	33870	160,161
335361	34240	160,161
335403	86650	170
335404	86651	170
335419	36560	167
335503	35790	166
335633	35800	171
335648	37770	151
335818	86211	170
335819	86212	140,170
336178	13570	137,139
336179	11038	137,138
336185	21658	137,139
336211	11041	137,138
336226	36570	171
336227	36580	171
336308	35810	167
336388	36520	171
336389	36530	171
336430	32560	168
336530	33150	19,23,83,84,85,86
336535	28352	25
336561	22624	52
336565	21651	69
336574	22653	50
336821	36550	172
336982	45290	19
337067	11045	138
337068	36870	140
337533	13580	139
337574	22352	84
337774	22625	50,51,52,59
338174	11058	138
338222	36020	158,161
338484	33730	23,25,89,90,91
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338636	12827	25,91
338667	12828	91
338813	37760	150
338876	33110	152
338878	33120	150
338879	33370	152
338880	33130	150
338882	37800	172
338883	37799	150
338884	33140	150
338886	33100	150
338893	12570	25,27,89,90,91
339044	33070	140
339720	12472	15,85,95
340115	35930	159,161
340116	35970	160,161
340616	37797	151
340619	12815	19,23,84,85,86,94
340657	37793	151
340811	86487	15,85
341038	12551	23
341085	37791	151
341219	22457	25
341220	22374	25
341280	86011	23,25,65
341281	86012	68
341501	37796	151
341732	86491	19,21,23,83,84,85,86
342291	36540	169
342370	86216	85
342421	11042	137,138
342513	33640	137,166
342786	86013	19,21,23,64
342870	86498	79
343020	11044	137,138
343105	13251	139
343115	11043	137,138
343141	13240	84,85,137,138
343512	37794	150
343809	35770	167
343853	36500	167
343863	35450	168
343977	11053	84,85,137,138
344046	86656	151
344227	86493	85
344386	36510	167
344470	89593	15,17,80,82,83,85,92
344472	35470	169
344526	36620	170
345257	36320	160,161
345905	22407	65,74
345992	22632	25,49
346005	22408	74
346006	22409	74
347371	22403	65,74
349193	21654	68

SIERRA NO.	GLM NO.	PAGE NO.
350038	32800	65
350271	22373	25,68,69
351018	35340	166
351019	35360	167
352165	33020	25,59,60
376856	11425	15
377139	21860	130
377992	89470	88,92
378251	16240	131
378252	22800	130
378444	72420	144
379504	22860	23,25,67,68
379777	40800	152
382343	11430	19,23,64
382363	77290	150
382407	22870	19,23,66,67,68,69
382408	16300	23,25,67,68,69
382547	89940	23,82,86,92
384087	12450	21,83,95
384195	22880	25
385043	16310	23,25,67,68
385068	16320	23,64
385072	89612	88,92
385087	22722	23,64
385175	21511	21,64
386084	89770	13,78,79
386279	23710	112
386280	23730	112
386573	33750	172
386764	22890	19,21,66
386765	22900	19,21,66
386766	11423	21,64
386866	22245	102
387041	22810	130
387067	22728	21,64
387139	22500	131
387247	11410	69
387262	40700	148
387285	24060	115
387336	27756	21,58
387361	89490	78,92
387656	16330	25,65
387787	22820	131
387817	21610	65
388602	39360	163,165
388651	27754	23,59
389039	22910	68,69
389042	16340	68,69
389133	12232	83
389455	27700	60
389576	89500	11,78,79,92
389577	12436	11,79,95
390286	89990	80,81,92
390509	24570	119
390510	24590	119
390613	12474	81,95
390700	39355	162,165
390900	22920	130
391170	24310	114,116

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SIERRA NO.	GLM NO.	PAGE NO.
391365	27702	25,23,59
391416	24330	114,116
391481	23810	122
391508	77300	150
391653	23850	122
391741	12247	81
391988	39090	164,165
392123	12733	106
392160	12696	106
392461	12695	106
392462	12738	21,106
393088	40810	152
393103	40820	152
393561	34650	168
393630	12070	81
393632	12470	15,81,95
394408	46130	139
394411	13190	138
394546	39380	162,165
394711	12050	79
394930	24210	118,122
395072	12103	90
395073	12101	89
395209	22414	69,76
395270	12060	81
395289	89750	15,17,80,82,85,92
395401	22840	130,131
395627	16220	131
396041	22850	131
396350	87602	40
396351	87680	40
396352	87690	42
396355	87603	40
396377	24240	113,115
396378	24260	113,115
396379	24280	113,115
396504	24230	118,122
396520	40730	148
396521	40710	148
396522	40720	148
396644	12255	79
396701	40560	148
396725	89710	23,82,84,85,86,92
396750	39354	163,165
396987	13080	138
397087	11392	67
397338	22671	23,48
397537	16350	19,66
397538	16360	19,66
397627	22661	16,46
397768	12683	106
398042	22185	103,104
398172	39930	164,165
398319	40165	153
398327	40155	153
398514	40830	152
398529	22930	130
398693	39070	163,165
398873	12742	19,106

SIERRA NO.	GLM NO.	PAGE NO.
398874	11422	19,64
398901	16370	19,64
431642	28200	6,27
431708	12737	23,25,106
431844	24290	123
431870	24250	123
432264	22940	19,66
432276	11416	19,66
432397	12761	11,106
432570	39400	163,165
432955	12246	85
432962	40840	152
433458	12736	105
433550	87614	40
433570	22681	21,47
433580	12739	106
433941	39420	162,165
434029	12697	15,106
434137	13170	138
434153	22225	103
434381	39430	164,165
434391	11390	25,67
434424	89580	78,92
434467	22950	69
434588	27940	19,58
434844	16230	131
435027	12880	25,89,90,91
435123	22651	50
435274	27790	19,64
435390	12460	13,79,95
435491	13130	138
435519	22726	23,64
435597	13330	136
435957	46132	137,139
435959	12395	25,87,91,95
435990	12430	25,87,89,90,95
436195	13150	137,138
436251	24360	124
436254	24340	124
436289	24370	125
436290	24390	125
436353	14170	120,121
436354	14190	120,121
436358	39353	162,165
436745	12776	21,23,25,104
436746	22631	25,49
436834	22419	25,68,76
436888	22416	67,76
436891	39410	164,165
436959	40540	148
436972	24540	117
436973	24560	117
437059	89790	19,82,84,92
437088	16200	131
437090	13110	138
437155	39352	164,165
437288	11424	15
437297	22652	51
437327	40520	148

SIERRA NO.	GLM NO.	PAGE NO.
437330	21677	25
437725	39510	164,165
437907	12233	85
438543	12400	23,85,86,95
438544	12480	19,84,95
438545	12482	19,84,95
438579	12244	86
438592	12245	84
438602	12240	86
438616	40850	152
438904	39390	163,165
438996	40590	148
439001	24220	118,122
439002	24300	118
439012	23950	119
439014	14180	120,121
439014	24580	119
439071	40510	148
439072	40550	148
439073	40600	148
439075	40530	148
439076	40570	148
439077	12210	83
439078	40580	148
439083	39370	162,165
439084	39350	162,165
439085	39080	163,165
439138	22421	19,66,76
439185	22418	23,67,76
439476	22720	23,25,65
439538	24350	124
439559	39351	164,165
439972	28800	7
439973	28700	7,25
5000074	11406	69
5000308	12235	84
5000309	87601	40
5000356	28210	6
5000363	11408	69
5000400	39356	164,165
5000440	11398	25,68
5000614	22433	75
5000615	22435	25,75
5000618	22431	75
5000623	22434	75
5000624	22436	75
5000626	22432	75
5001036	13180	138
5001593	89570	23,88,90,91,92
5001594	12102	90
5001594	12104	90,91
5001595	12000	90,91
5004218	22622	52
5004632	28510	6
5004635	28710	7
5004639	28880	7
5004765	22417	68,69,76
5004767	28500	6,25
5004938	22623	52

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SIERRA NO.	GLM NO.	PAGE NO.
5004941	22621	51
5005034	22235	102
5005401	28810	7
5005440	13010	137,138
5006241	27752	25,59,60
5006373	87600	39
5006655	24110	114
5006656	23940	119
5006657	23910	113
5006658	24010	118
5006659	23800	122
5006660	23840	122
5006662	24430	112
5006664	23930	113
5006665	24130	114
5006666	24080	115
5006668	23960	119
5006669	24030	118
5006675	24050	123
5006676	24100	123
5006677	24090	123
5006678	24140	123
5006687	14600	120
5006688	14610	120
5006690	24160	124
5006691	24150	124
5006692	24500	125
5006693	24520	125
5006694	23740	117
5006695	23760	117
5006701	23770	116
5006702	23790	116
5006703	24020	118
5006704	24034	118
5006706	24170	124
5006707	23750	117
5006708	14620	120
5006711	24190	124
5006712	24180	124
5006713	24200	124
5006714	14640	120
5006715	14630	120
5006716	14650	120
5006727	24440	121
5006728	24450	121
5006729	24480	121
5006730	24490	121
5006751	24040	115
502880	72020	144
502881	72030	144
502888	72040	144
502890	72050	144
5034351	12763	106
5034522	12764	106
552906	22140	13,104
553126	82360	19,66
554545	81220	81,85
580148	70070	142
580256	70590	142

SIERRA NO.	GLM NO.	PAGE NO.
580290	70080	142
580321	70570	142
581207	70200	142
581419	70640	142
581528	72440	144
581778	72350	144
582382	72070	144
582508	72010	144
583408	72320	144
583740	72060	144
584477	72100	144
584561	72080	144
586180	72430	144
586224	73010	144
775518	89650	78,80,92
775519	89670	78,92
775521	89480	80,92
777129	89690	82,92
777212	89680	88,89,92
777213	89660	21,80,82,83,92
777214	89780	21,82,83,92
908034	24840	153
908158	22320	23,25,85,86,96
909386	22327	21,23,64
909753	22410	112
910582	82250	19,64
911692	22405	25,74
911961	11039	23,25,59
911962	11055	60
912388	33980	60
915954	27720	25,59,60
981911	24900	153
982230	24910	153
983870	24980	153
984491	24970	153
986979	22630	49

[illegible]

[illegible]

Limited Warranty of GLM Products, Inc.

1. This product of GLM Products, Inc. ("GLM") is warranted to be free from defects in material and workmanship for a period of two years from the date of purchase for aluminum elbow/manifold and all other GLM parts and accessories, three years from the date of purchase for cast iron elbow/manifold. Products used for commercial, rental, or income producing activity are warranted for a period of ninety (90) days. Only a person who has proof of purchase of the GLM product will receive warranty service.
2. GLM does not warrant or make any representations in respect to installation errors made by a servicing dealer, servicing mechanic, or the individual. This warranty applies to defects in material and workmanship only; it does not apply to the following: alteration, removal of parts, adjustments, tune-ups, normal wear, damages due to accident, improper installation or service, misuse, neglect, lack of maintenance, use of any accessory or part not manufactured or sold by GLM, operation with fuels, oils, or lubricants which are not suitable for use with the product, water entering engine cylinder through exhaust system or carburetor, participation in or preparing for racing or other competitive activity or operating with a racing type lower unit. GLM's liability under this warranty shall be terminated on any part damaged by flood, fire, storm, or other natural acts or where the model number and other identification has been altered, defaced or removed.
3. GLM will not be liable for any labor charges and incidental, consequential (such as loss of business), special or indirect damages resulting from the product or caused by the defect or reasonable delay in correcting the defect are not covered under the warranty.
4. GLM reserves the right to inspect and determine whether or not any part has failed due to a defect in material or workmanship. **Do not disassemble any parts including drive units that have been assembled by GLM. GLM's obligation shall be limited to repairing, replacing or crediting the product determined to be defective, at GLM's sole discretion:** GLM reserves the right to credit refund your purchase price for the product rather than repair or replace the product, or any part thereof. Any part is covered only for the original warranty period. Once the warranty on the product has expired, the warranty on any replaced or repaired part also expires. GLM shall be allowed to keep parts it deems defective under this warranty.
5. **ALL WARRANTIES BY AND FROM GLM, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY FOR THE PRODUCT INVOLVED. GLM DOES NOT WARRANT, GUARANTEE OR MAKE ANY REPRESENTATIONS REGARDING THE USE OR THE RESULTS OF THE USE OF THE PRODUCT IN TERMS OF ITS CORRECTNESS, RELIABILITY OR OTHERWISE. THE ENTIRE RISK AS TO THE RESULT AND PERFORMANCE OF THE PRODUCT IS ASSUMED BY YOU. IN NO EVENT WILL GLM, OR ITS RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS (COLLECTIVELY, "GLM") BE LIABLE TO YOU FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES (INCLUDING DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION AND THE LIKE) ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT.** GLM's liability to you for actual damages from any cause whatsoever, and regardless of the form of the action (whether in contract, tort (including negligence), product liability or otherwise), will be limited to the purchase price paid for the product. No GLM dealer, agent or employee is authorized to make any modification or extension to this warranty. Because some states do not allow the exclusion of implied warranties and/or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.
6. You are required to notify GLM of any defect within the applicable warranty period and immediately obtain from GLM or its distributor a warranty application and a GLM RGA number. Upon GLM's receipt of the completed warranty application and part claimed under this warranty (with the GLM RGA number marked on the shipping and packaging of the part), GLM will inspect the part for warranty coverage. Only when the defect is covered by the warranty will the part be repaired or replaced, at GLM's sole option. If warranty service is required, you must deliver your product, at your expense, with proof-of-purchase (including original purchase invoice and invoice for installation of warranted part) to GLM for repair. Service is provided by GLM at its corporate headquarters at 705 Los Angeles Avenue, Monrovia, California 91016, Tel: (626) 357-0077, Fax: (626) 357-0600. When repair is completed, GLM will ship back to its indicated address. Shipping methods will be determined by GLM.
7. This warranty comprises the sole and entire warranty pertaining to the product furnished to you by GLM, and GLM makes no other warranty, guarantee or representation of any kind whatsoever pertaining to the product. Any other representations, or promises by any person are unauthorized and are not binding upon GLM unless in writing.

Warranty Service Procedure

1. GLM will directly and promptly approve and honor legitimate warranty claims on product only under the condition that the claim is made through a servicing Dealer. ****Do not disassemble any parts including drive units that have been assembled by GLM.****
2. GLM will credit or reimburse the Dealer for qualified warranty claims submitted that comply to GLM identified warranty policies.

ANY CLAIM UNDER GLM'S WARRANTY (Please see Limited Warranty of GLM Products) SHALL BE IN WRITING TO GLM PRODUCTS, INC. WITHIN THE WARRANTY PERIOD. TO ASSURE FAST AND EFFICIENT SERVICE PLEASE SHIP ALL WARRANTY PART(S) AND DOCUMENTATION DIRECTLY TO GLM. ALL WARRANTY CLAIM PRODUCTS MUST BE SHIPPED FREIGHT PREPAID TO GLM FOR WARRANTY INSPECTION. (FREIGHT CHARGES WILL BE REIMBURSED ONLY UPON APPROVAL ON WARRANTY)

1. All returns must have a GLM "RGA #" assigned (contact GLM directly for the "Return Goods Authorization #"). It is imperative to indicate this number on outside of all boxes and included on all submitted documentation. No returns will be accepted without an RGA #.
2. All returns must accompany a copy of the completed warranty application. (Application is available at www.glmmarine.com, in the back of each GLM's catalog or through your GLM distributor.)
3. **ALL** parts involved in the claim.
4. Copy of invoices as follows:
 - Original purchase invoice from distributor.
 - Original invoice for installation of warranted parts.
 - Proposed invoice/ work-order to GLM, if any, for warranty claim.NOTE: GLM complies with OEM standard flat hours and rates.
Copies of all invoices for items in above proposed invoice.

Send parcel(s) to:

**GLM Products, Inc. - Warranty
705 Los Angeles Avenue
Monrovia, CA 91016
RGA#**



GLM Products, Inc.

Warranty Claim Application

Note: Please fill out all information and send all requested material. Failure to complete this form and supply all requested material will delay your claim. Do not disassemble units that were assembled by GLM. Other applications that used only GLM parts should have just the parts returned to GLM not the complete unit.

RGA # _____ **Contact GLM at 626/357-0077 for a Returned Goods Authorization #.** All returned goods **must** have an RGA # marked on package (s) or they will be refused. No exceptions. **Ship to: GLM Products, Inc.**
Date Called: _____ **705 Los Angeles Avenue**
Caller Name: _____ **Monrovia, CA 91016**
Company Name: _____

Distributor Information:

Company: _____ **Contact:** _____ **City:** _____ **State:** _____

Dealer Information:

Company: _____ **Address:** _____ **City:** _____
State: _____ **Zip:** _____ **Tel:** _____ **Fax:** _____ **Contact:** _____

Dealer Customer Information:

Name: _____ **Address:** _____ **City:** _____
State: _____ **Zip:** _____ **Tel:** _____ **Fax:** _____

Application Details:

Manufacturer: _____ **Model:** _____ **Year:** _____
Length: _____ **Beam:** _____ **Engine / Drive:** _____ **Horse Power:** _____

List any modifications to boat or drive system that were not installed by the original manufacturer:

Details of Return: Please list all item (s) being returned and describe detailed reason for warranty claim.

If you need more space for this description please continue on a blank sheet of paper.

Documentation and other items required to process warranty: Please make sure that all items listed are sent with this application. Failure to do so will delay processing this claim.

1. All parts claimed and listed on this application. This is **all parts** being claimed regardless of manufacturer.
2. Copy of invoices as follows:
 - A. Original purchase invoice from Distributor.
 - B. Proposed invoice to GLM from the Dealer for repairs.
 - C. Invoice for installation of warranted parts.
 - D. Invoices for any other items being claimed

Note: GLM reserves the right to credit the Dealer, via the Distributor, for all GLM products involved in this claim.