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Johnson®/Evinrude®



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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.

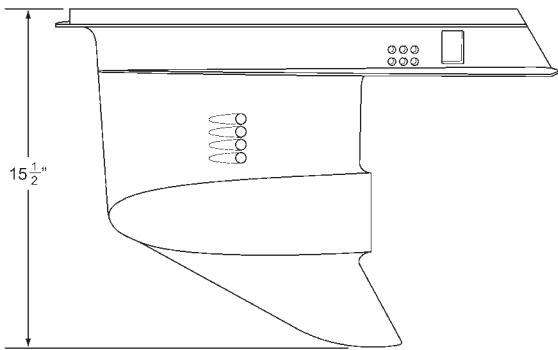
Straight at the trailing end of the gear housing and the fin.

Pointed at the trailing end of the cavitation plate.

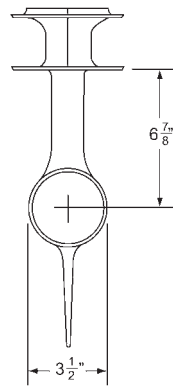
Six holes above the cavitation plate.

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.

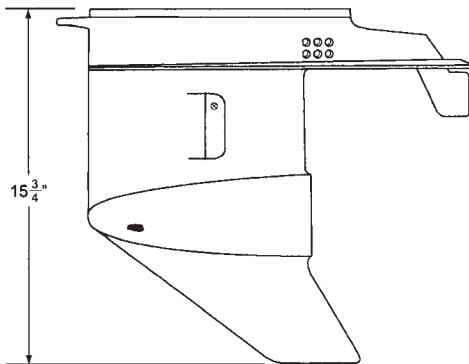
Straight at the trailing end of the gear housing and the fin.

Pointed at the trailing end of the cavitation plate.

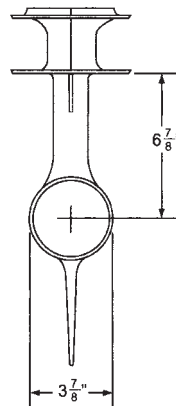
Six holes above the cavitation plate.

External water intake screens.

Includes speedo pitot.



Side View



Rear View



Top View

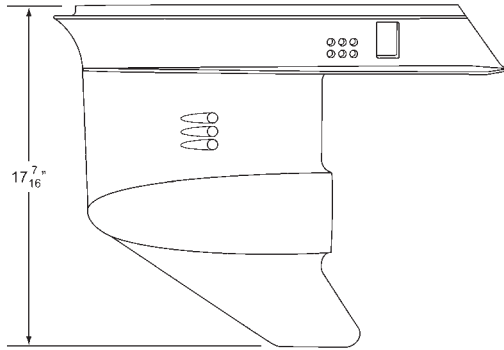
Johnson / Evinrude

2 & 3-CYL. LOOPCHARGED LARGE GEARCASE IDENTIFICATION

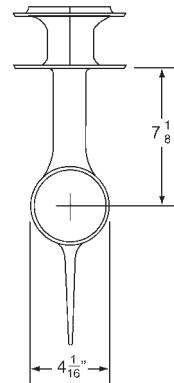
Large Gearcase (1975-2006)

Physical Characteristics:

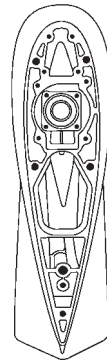
- 17-7/16" tall.
- Straight at the trailing end of the gear housing and the fin.
- Pointed at the trailing end of the cavitation plate.
- Six holes above the cavitation plate.
- Internal water intake screens (three holes).
- No speedo pitot.



Side View



Rear View



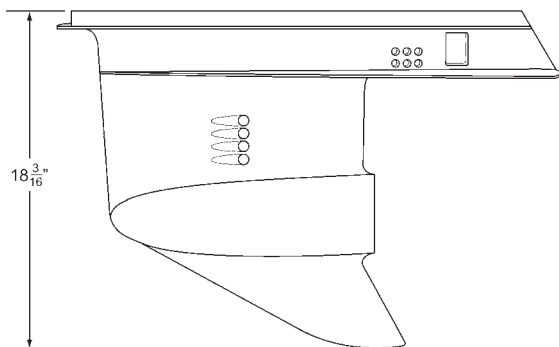
Top View

V4 60° & V4 90° SMALL GEARCASE IDENTIFICATION

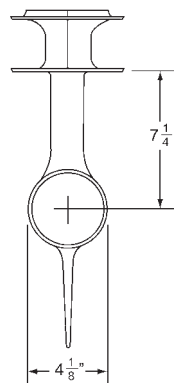
Small Gearcase V4 90° (1978-1998)

Physical Characteristics:

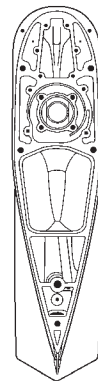
- 18-3/16" tall.
- Straight at the trailing end of the gear housing and the fin.
- Pointed at the trailing end of the cavitation plate.
- Six holes above the cavitation plate.
- Internal water intake screens (four holes).
- No pitot.



Side View



Rear View



Top View

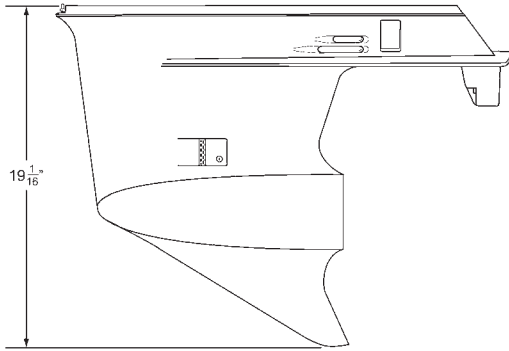
Johnson / Evinrude

V4 60° & V4 90° SMALL GEARCASE IDENTIFICATION

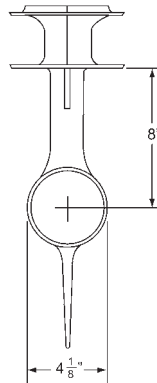
Small Gearcase V4 60° (1995-2006)

Physical Characteristics:

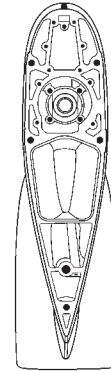
- 19-1/6" tall.
- Curved at the trailing end of the gear housing and the fin.
- Flat at the trailing end of the cavitation plate.
- Two slots above the cavitation plate.
- External water intake screens.



Side View



Rear View



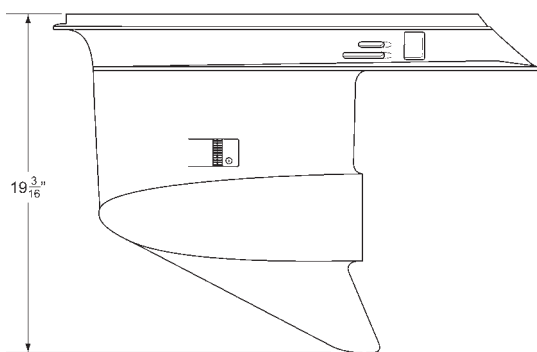
Top View

V4/V6 LARGE GEARCASE IDENTIFICATION

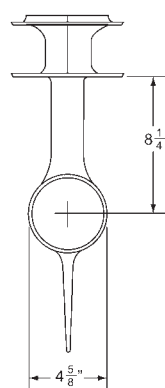
Large Gearcase "O" Type V4 & V6 (1979-2006)

Physical Characteristics:

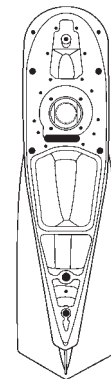
- 19-3/16" tall.
- Straight at the trailing end of the gear housing and the fin.
- Pointed at the trailing end of the cavitation plate.
- Two slots above the cavitation plate.
- External water intake screens.



Side View



Rear View



Top View

Johnson / Evinrude

V4/V6 LARGE GEARCASE IDENTIFICATION

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

Physical Characteristics:

19-3/16" tall.

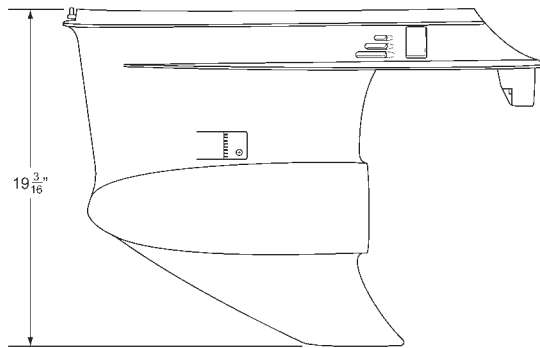
Curved at the trailing end of the gear housing and the fin.

Flat at the trailing end of the cavitation plate.

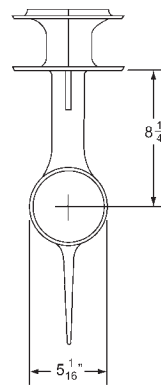
Three slots above the cavitation plate.

External water intake screens.

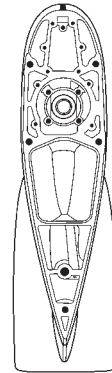
Includes speedo pitot.



Side View



Rear View



Top View

Large Gearcase "M2" Type 150-200 HP 60° V6 (25") & 200-300 HP 90° V6 (20" & 25")

Physical Characteristics:

19-3/16" tall.

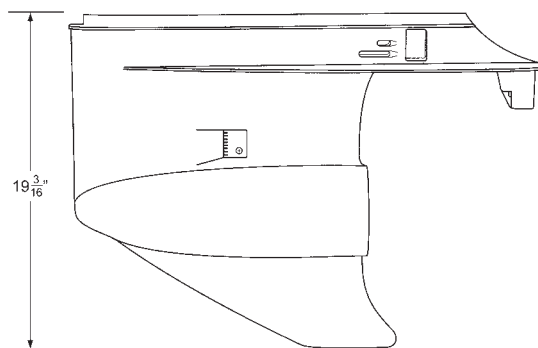
Curved at the trailing end of the gear housing and the fin.

Flat at the trailing end of the cavitation plate.

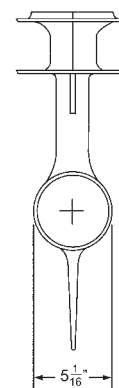
Two slots above the cavitation plate.

External water intake screens.

Includes speedo pitot.



Side View



Rear View

Johnson / Evinrude

V6 EMPTY GEARCASE HOUSING - "O" TYPE

"O" Type V6 (1978-2006) - With Speedo

No. 28700

EMPTY GEARCASE
W/SPEEDO
OEM: 0439973

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

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



LIMITED TO STOCK ON HAND



Johnson / Evinrude

GEARCASE ASSEMBLY APPLICATIONS							
Motor	Year	Complete	Housing	Motor	Year	Complete	Housing
V4 Crossflow 20"	1988-98	-	-	V6 Crossflow 20" & 90° Loopcharged	88-91	-	28700
V4 Crossflow 25"	1988-91	-	-	V6 Crossflow 25" & 90° Loopcharged	88-91	-	28700
65 Jet (90 hp)	All	-	-	V6 Crossflow 20" & 90° Loopcharged C/R	88-91	-	28700
100 WPL 20"	1999	-	-	V6 90° Loopcharged 20" w/ Internal Screens	92-99	-	28700
100 WPX 25"	1999	-	-	V6 90° Loopcharged 20" w/ External Screens	92-99	-	-
100 Comm. 20" Small	1992-97	-	-	V6 90° Loopcharged 25"	92-99	-	-
100 Comm. 20" Large	1988-97	-	-	V6 90° Loopcharged 25" C/R	92-99	-	-
100 Comm. 25" Large	1988-97	-	-	V6 90° Loopcharged 30"	93-99	-	-
100 WQL 20"	1998	-	-	V6 90° Loopcharged 30" C/R	93-99	-	-
100 WQX, 105 WEX 25"	1998	-	-	200 Comm. 20"	93-99	-	-
105 Comm. WPL 20"	2000-01	-	-	200 Comm. 25"	93-99	-	-
105 Comm. WPX 25"	2000-01	-	-	V8 20"	88-98	-	-
105 Comm. WEL 20"	2000-01	-	-	V8 25"	88-98	-	-
105 WEL 20"	1998	-	-	V8 30"	93-96	-	-
105 WRL 20"	1997-98	-	-	V8 20" C/R	90-96	-	-
105 WRX 25"	1997-98	-	-	V8 25" C/R	88-98	-	-
105 RWL 20"	1998	-	-	V8 30" C/R	93-96	-	-
105 RWY 22.5"	1998	-	-				
105 RWX 25"	1998	-	-				
115 FPL/FSL 20"	1999-05	-	-				
115 FPX/FX 25"	2000-01	-	-				
80 Jet (115 hp)	All	-	-				
120/140 20"	1988-94	-	-				
120 25"	1988-94	-	-				
125 RWL 20"	1995-97	-	-				
125 RWY 22.5"	1995-98	-	-				
125 WTPL 20"	1992-98	-	-				
125 WTPX 25"	1988-98	-	-				
125 ESX	1989-91	-	-				
125 ESX Club Nautico	1992-94	-	-				
130 20"	1995-98	-	-				
130 25"	1995-98	-	-				
130 25" C/R	1995-97	-	-				
135 FPL/FL 20"	2000-01	-	28700				
135 FSL/FS 20"	2000-01	-	-				
135 FPX/FX 25"	2000-01	-	-				
140 25"	1988-94	-	-				
140 25" C/R	1988-94	-	28700				
V4 60° Loopcharged 20" GL W/ Pitot Hole	1995-06	-	-				
V4 60° Loopcharged 20" (Use Pitot Style)	1995-06	-	-				
V4 60° Loopcharged 25"	1995-06	-	-				
V6 Crossflow	1979-92	-	-				
V6 60° Loopcharged	1991-05	-	-				
V6 90° Loopcharged	1986-05	-	-				
V6 60° Loopcharged 20" W/ External Screens	1995-00	-	-				
V6 60° Loopcharged 25" W/ External Screens	1991-99	-	-				
V6 60° Loopcharged 25" C/R	1992-99	-	-				
105 Jet (150 HP)	All	-	-				
150 Comm. 20"	1993-99	-	-				
150 Comm. 25"	1993-99	-	-				
155 Comm. 25"	1988-92	-	-				



Section 2

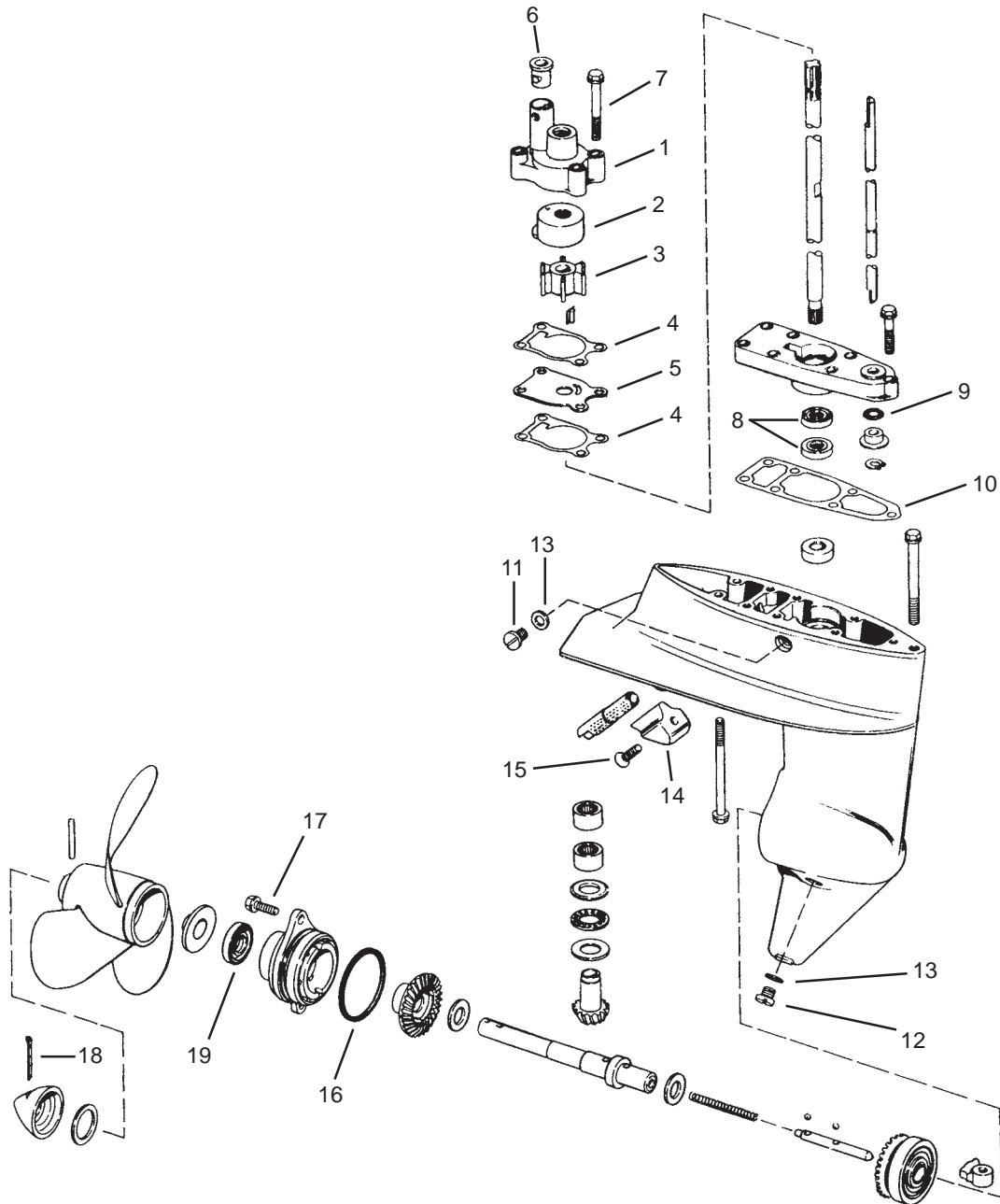
Johnson / Evinrude Gearcase Exploded Views

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Johnson / Evinrude

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

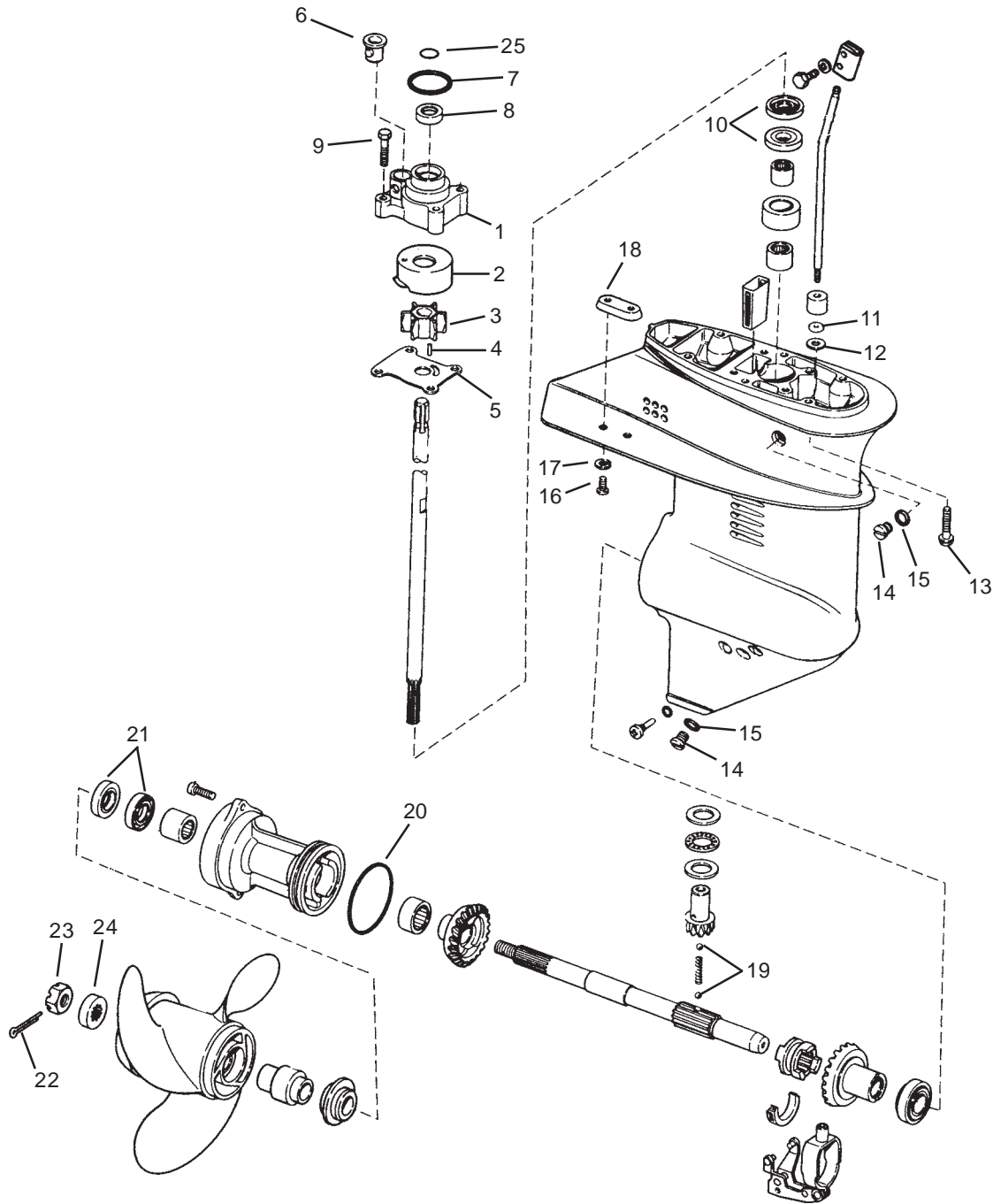
2-Stroke



Johnson / Evinrude

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

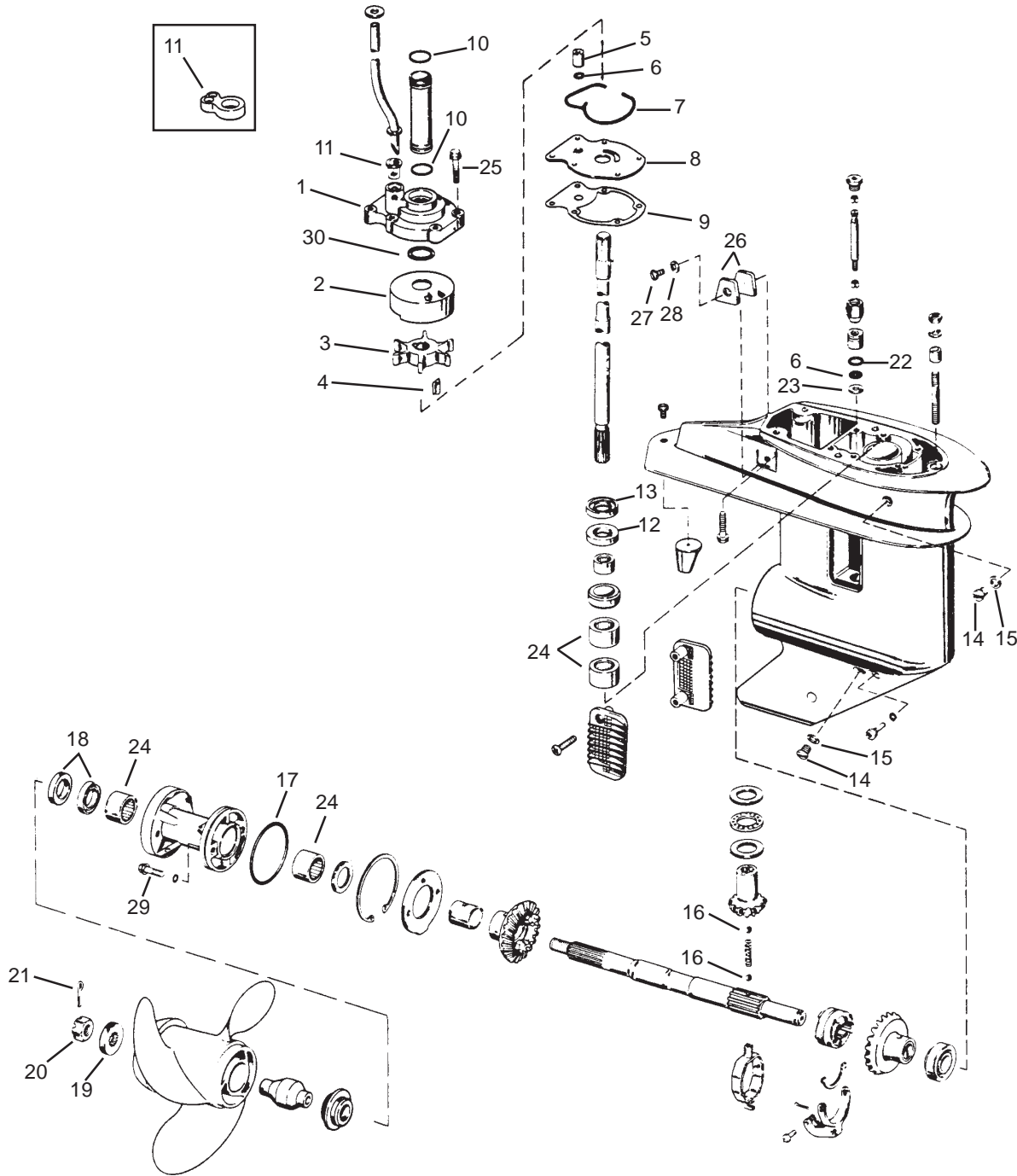
2-Cyl. 2-Stroke Thru-Prop Exhaust



Johnson / Evinrude

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

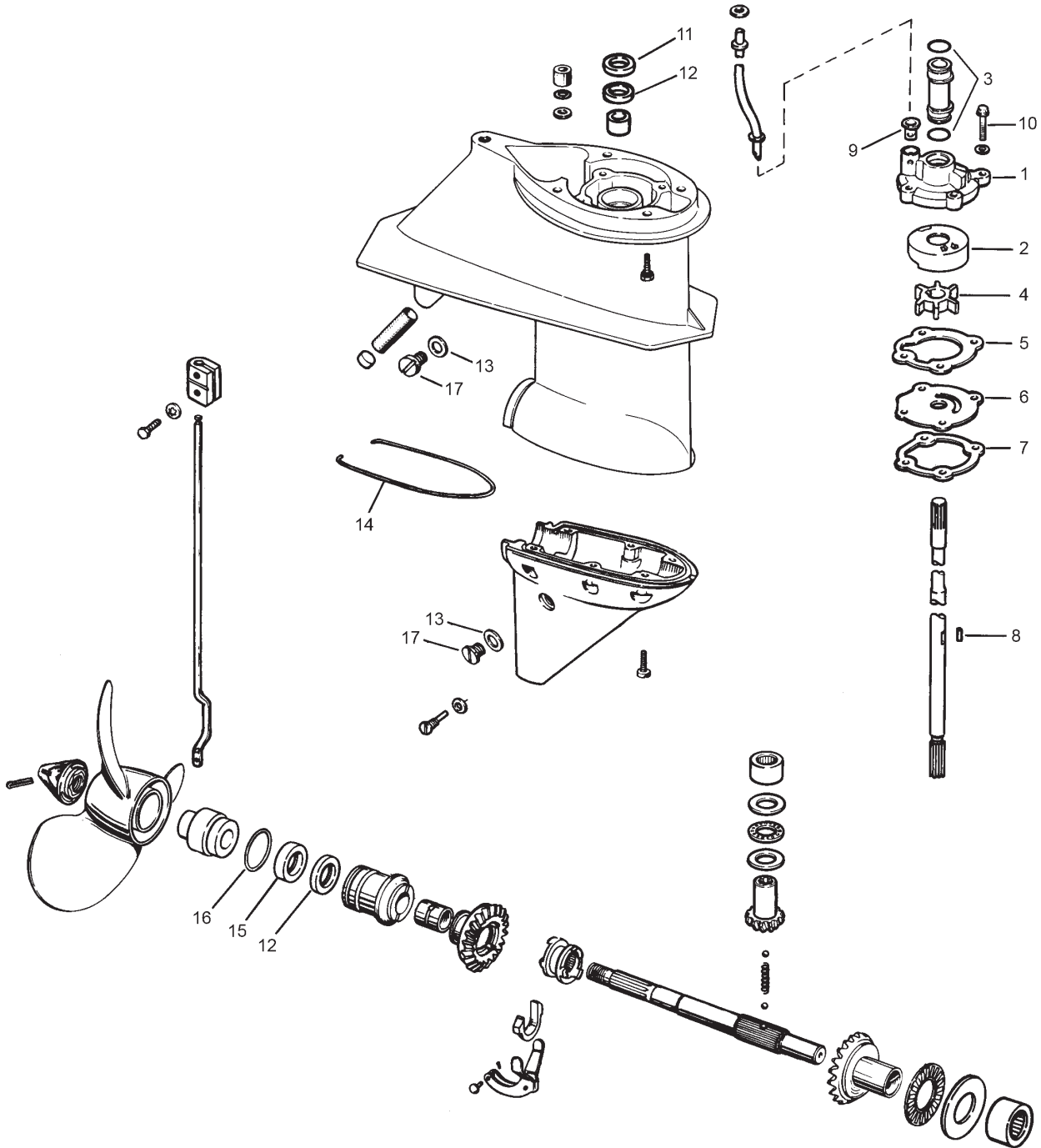
20-35 HP 2-Cyl. Crossflow (1980-2005)
25, 30, 35 HP 3-Cyl. Loopcharged (1996-2001)



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GEARCASE COMPONENTS - CROSSFLOW - THRU-CAVITATION PLATE EXHAUST

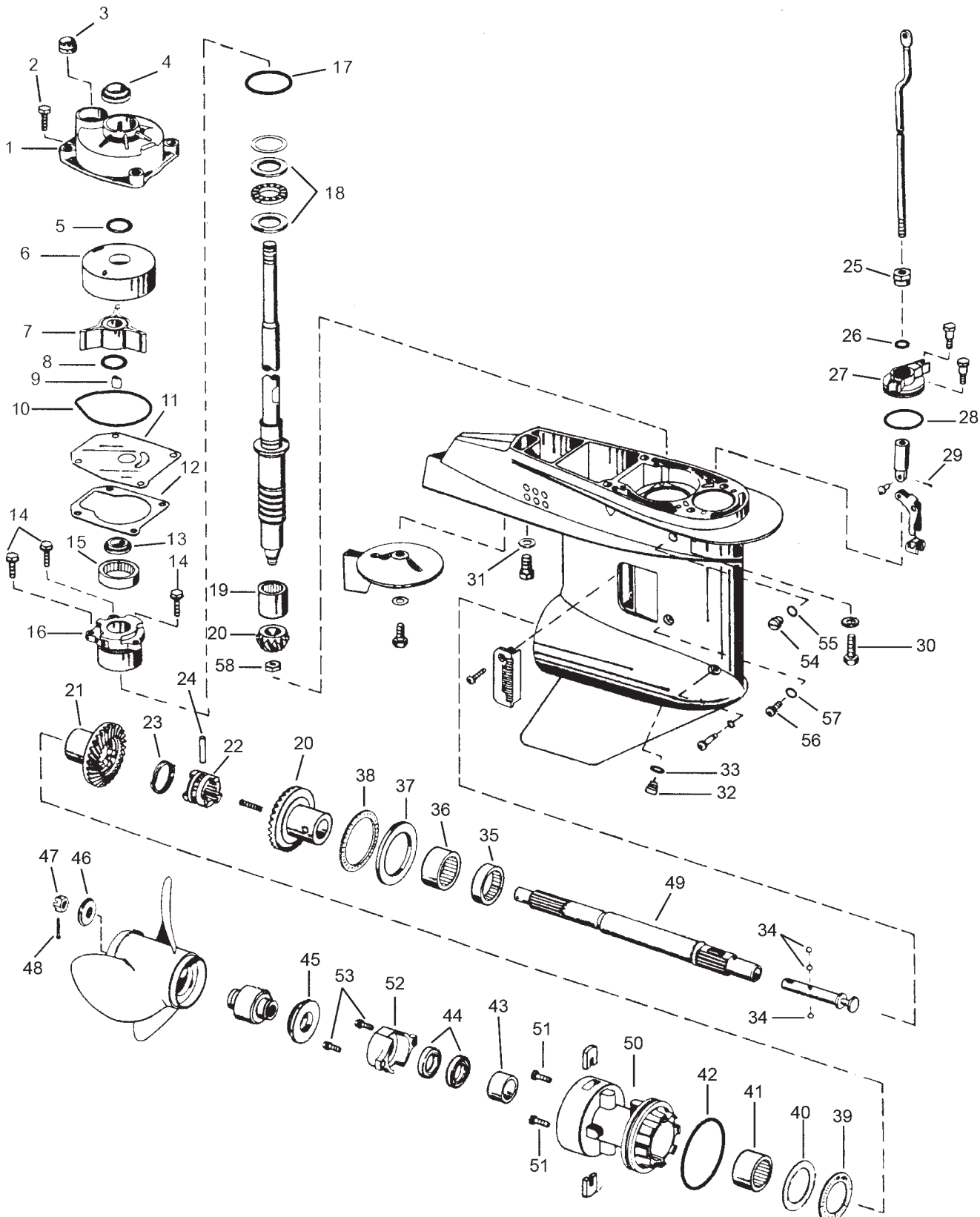
25-28 HP, 2-Cyl. Crossflow (1978-1997)



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GEARCASE COMPONENTS - LOOPCHARGED - SMALL

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



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GEARCASE COMPONENTS - LOOPCHARGED - SMALL

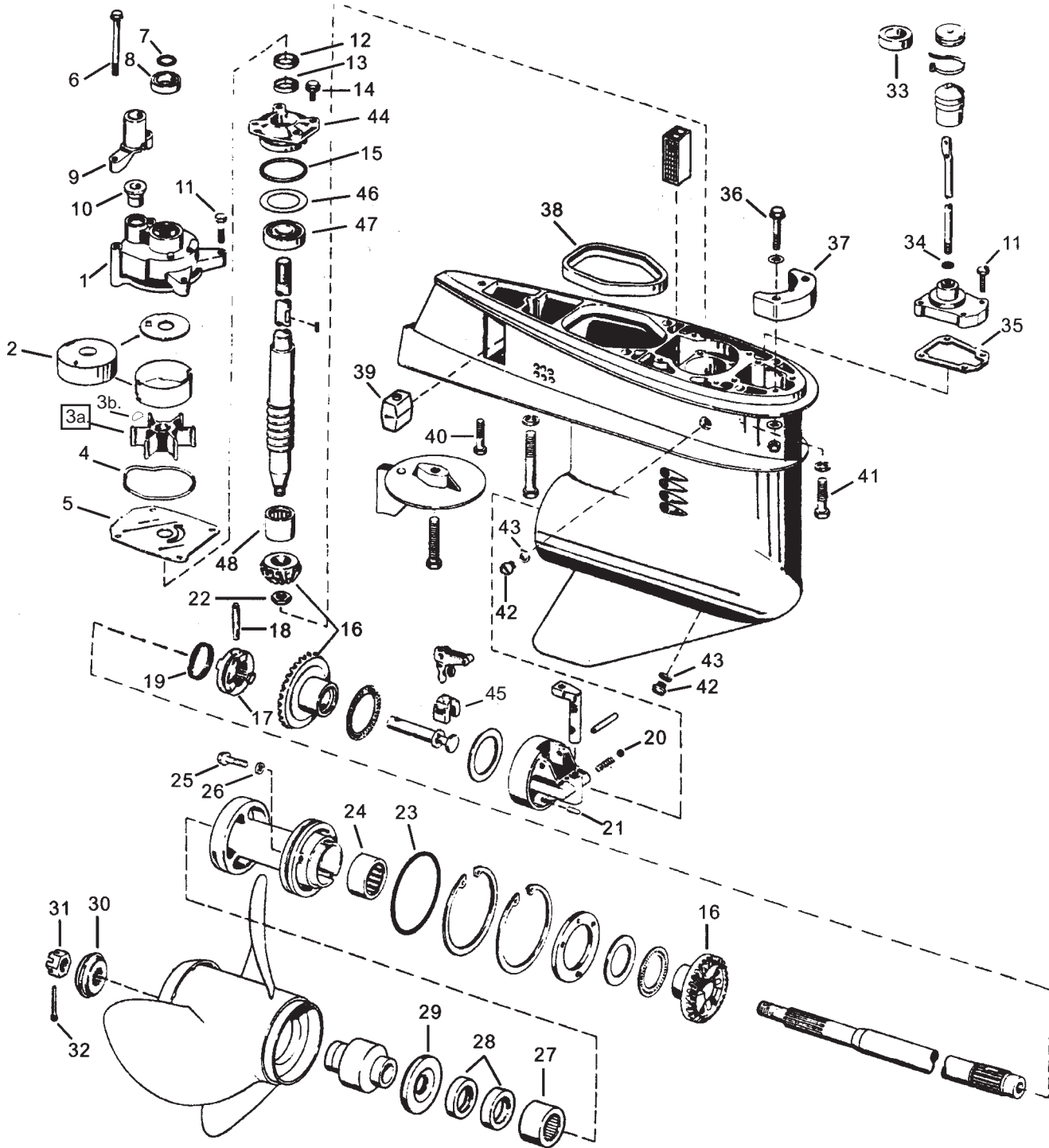
GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
12480	1	0438544	Pump Housing (1989-98)	11416	50	0432276	Bearing Carrier
12482	1	0438545	Pump Hsg. (1995-01) (2004-05)	22395	51	0328744	Screw
22360	2	0302325	Screw	12742	52	0398873	Anode
86497	3	0333758	Grommet	22392	53	0328694	Screw
86491	4	0341732	Grommet	22393	54	0309243	Screw
82100	5	0310584	O-ring	45290	55	0336982	O-ring
12815	6	0340619	Pump Cup	22394	56	0324852	Screw
89790	7	0432941	Impeller (1989-1994)	80100	57	0305739	Seal
81250	8	0331188	O-ring	11192	58	0313339	Pinion Nut
89592	9	0334897	Key				
86570	10	0324981	Seal				
12551	11	0341038	Wear Plate				
33150	12	0336530	Gasket				
86013	13	0342786	Oil Seal				
22362	14	0317624	Screw				
11422	15	0398874	Bearing				
27790	16	0435274	Bearing Housing Assembly				
82250	17	0310327	O-ring				
21649	18	0333771	Thrust Washer				
11430	19	0382343	Bearing				
22661	20	0397627	Gear Set				
22662	21	0332489	Reverse Gear				
22663	22	0332491	Clutch Dog				
11051	23	0320311	Spring				
21133	24	0320310	Cross Pin				
27942	25	0333780	Bushing				
45200	26	0318372	O-ring				
27940	27	0434588	Cover & Bushing Assembly				
82230	28	0913921	O-ring				
22145	29	0306376	Cotter Pin				
22329	30	0305282	Screw				
21674	31	0330265	Washer				
21731	32	0318544	Draining Screw				
31171	33	0311598	Gasket				
22490	34	0316506	Ball				
22940	35	0432264	Bearing				
22870	36	0382407	Bearing				
21648	37	0333725	Thrust Washer				
16360	38	0397538	Thrust Bearing				
16350	39	0397537	Thrust Bearing				
21647	40	0332514	Thrust Washer				
22890	41	0386764	Bearing				
82360	42	0553126	O-ring				
22900	43	0386765	Bearing				
86060	44	0321467	Oil Seal				
22240	45	0320305	Thrust Washer				
22250	46	0315810	Prop Spacer				
22150	47	0314503	Prop Nut				
22120	48	0314502	Cotter Pin				
22421	49	0439138	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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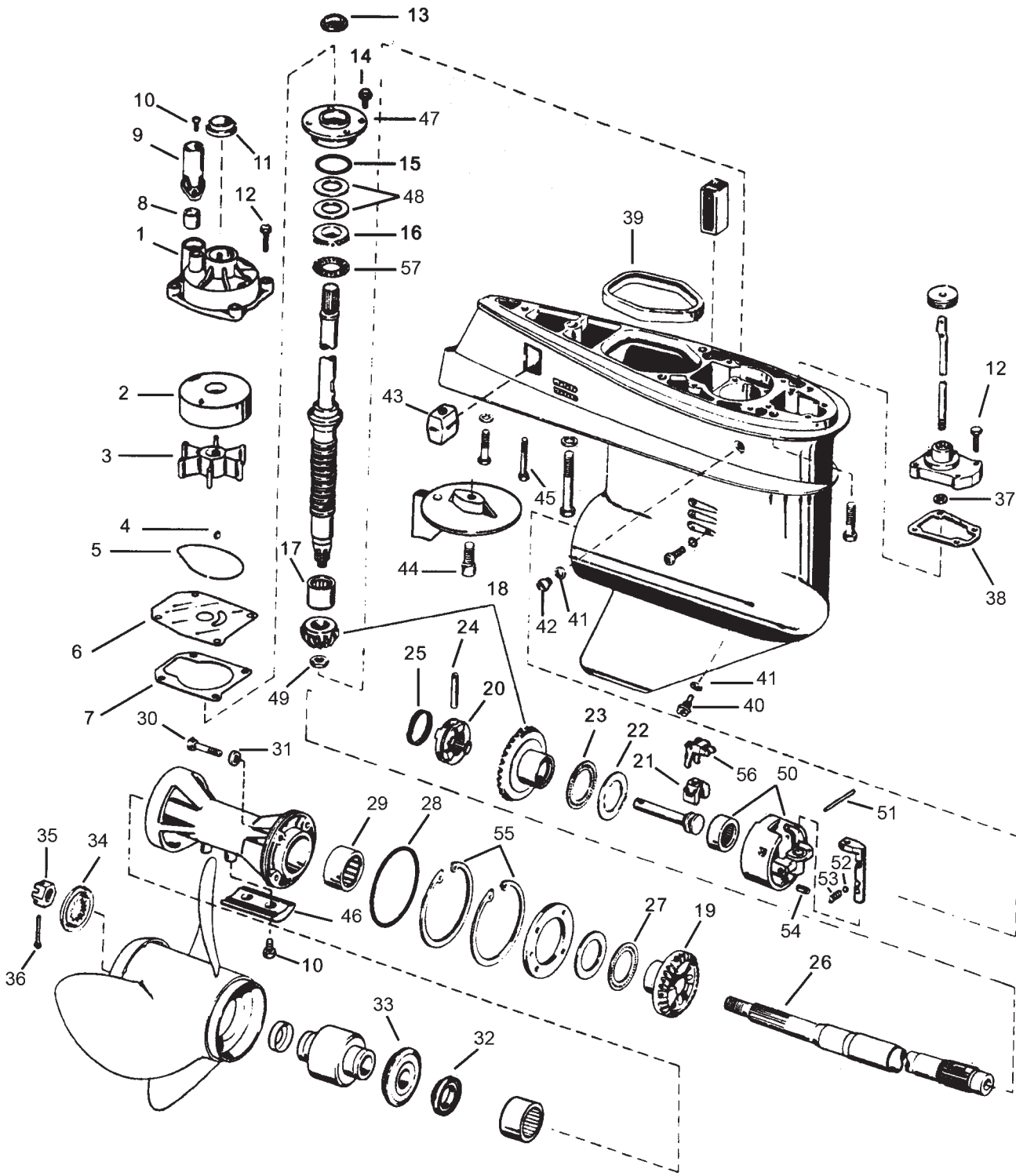
GEARCASE COMPONENTS - LOOPCHARGED - SMALL							
GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
12450	1	0384087	Pump Housing	21511	47	0385175	Bearing
12814	2	320775-6	Pump Cup	11423	48	0386766	Pinion Bearing
89660	3a.	0377230	Impeller (1975-1978)				
89595	3b.	0308928	Key (1975-1978)				
89780	3a.	0396809	Impeller (1979-1988)				
89591	3b.	0331901	Key, White (1979-1988)				
89593	3b.	0344470	Key, Black (1979-1988)				
86580	4	0315788	Seal				
12620	5	0320981	Wear Plate				
22324	6	0331980	Screw				
81120	7	0303059	O-ring				
86491	8	0341732	Grommet				
12940	9	0315838	Tube Guide				
86494	10	0315837	Grommet				
22360	11	0302325	Screw				
86460	12	0332205	Oil Seal				
86160	13	0321466	Oil Seal				
86013	12,13	0342786	Oil Seal (one piece)				
22327	14	0909386	Screw				
82240	15	0302588	O-ring				
22681	16	0433570	Gear Set				
22683	17	0319895	Clutch Dog				
22044	18	0320310	Cross Pin				
11051	19	0320311	Spring				
22491	20	0160084	Detent Ball				
21138	21	0331880	Pin				
11192	22	0313339	Pinion Nut				
82320	23	0320303	O-ring				
22890	24	0386764	Bearing				
22400	25	0320041	Screw				
80100	26	0332584	O-ring				
22900	27	0386765	Bearing				
86060	28	0321467	Oil Seal				
22240	29	0320305	Thrust Washer				
22250	30	0315810	Prop Spacer				
22150	31	0314503	Prop Nut				
22120	32	0314502	Cotter Pin				
86140	33	0305762	Grommet				
45200	34	0318372	O-ring				
33420	35	0314082	Gasket				
22322	36	0324430	Screw				
12738	37	0392462	Anode				
86210	38	0324937	Seal				
12776	39	0436745	Anode				
22366	40	0328096	Screw				
22329	41	0305282	Screw				
22420	42	0307551	Screw				
31171	43	0311598	Gasket				
22728	44	0387067	Bearing Housing & Seal				
27730	45	0334163	Cradle				
23530	46	0320166	Shim .003				
23540	46	0320167	Shim .004				
23550	46	0320168	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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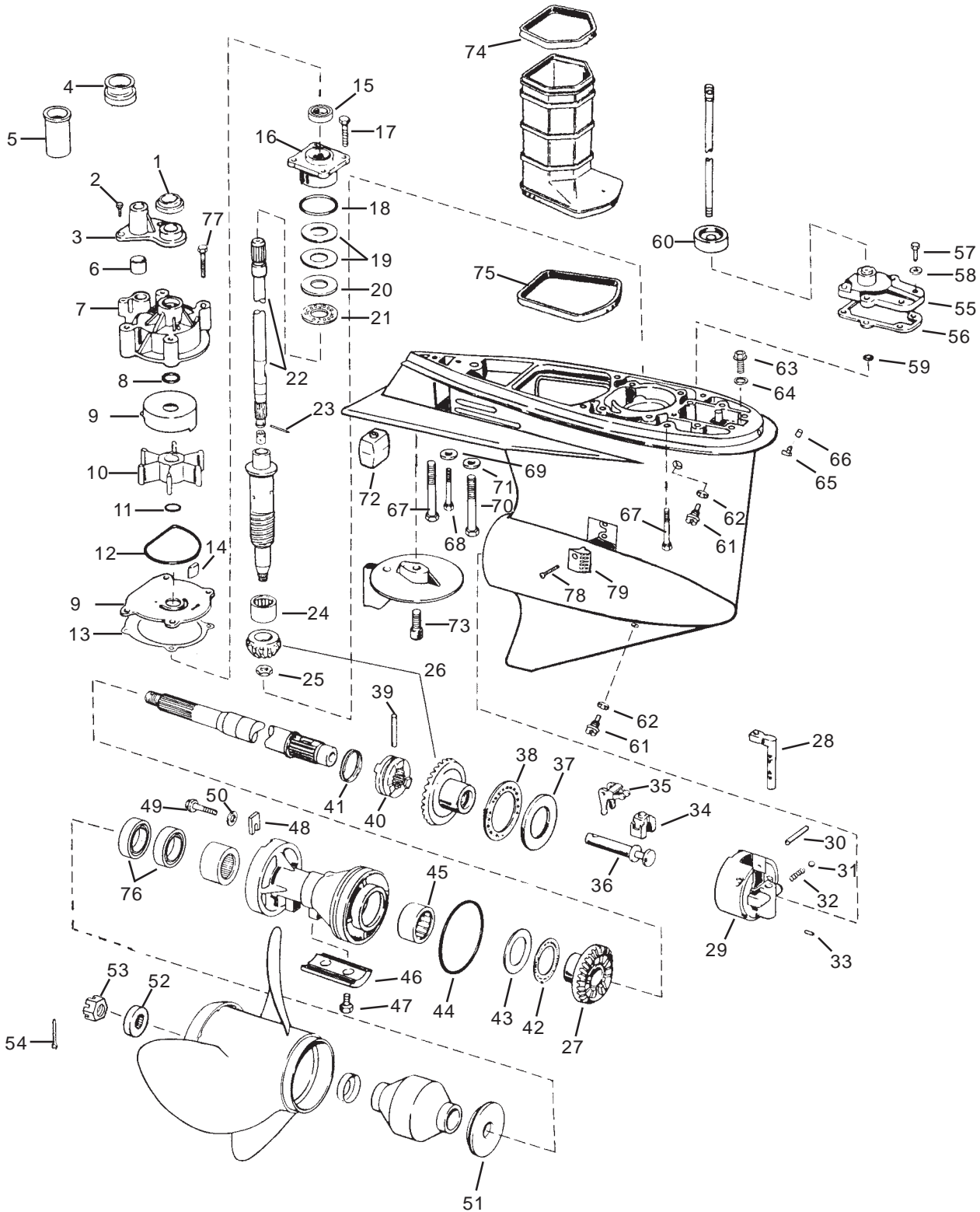
GEARCASE COMPONENTS - LOOPCHARGED - LARGE

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
12400	1	0438543	Pump Housing	22722	47	0385087	Bearing Housing & Seal
12815	2	0340619	Pump Cup	22726	47	0435519	Bearing Housing & Seal
89940	3	0382547	Impeller (1975-1978)	23600	48	0323889	Shim .003
89710	3	0396725	Impeller (1979-2006)	23610	48	0323890	Shim .004
89595	4	0308928	Key (1975-1978)	23620	48	0317232	Shim .005
89591	4	0331901	Key, White (1979-2006)	11192	49	0313339	Pinion Nut
89592	4	0334897	Key, Black (1979-2006)	27702	50	0391365	Housing & Bearing Assembly
34330	5	0319586	Gasket (1975-1978)	21105	51	0320145	Pin
86570	5	0324981	Seal (1979-2006)	22493	52	0327345	Detent Ball
12551	6	0341038	Wear Plate	11039	53	0911961	Spring
33150	7	0336530	Gasket	21138	54	0331880	Pin
86490	8	0314008	Grommet	21774	55	0313445	Retaining ing
12950	9	0319276	Tube Guide	27741	56	0324037	Lever
22320	10	0908158	Screw	16320	57	0385068	Thrust Bearing
86491	11	0341732	Grommet				
22360	12	0302325	Screw				
86013	13	0342786	Oil Seal				
22327	14	0909386	Screw				
81340	15	0313754	O-ring				
21643	16	0317230	Thrust Washer				
11430	17	0382343	Bearing				
22671	18	0397338	Gear Set				
22672	19	0318304	Reverse Gear				
22673	20	0318303	Clutch Dog				
27730	21	0334163	Cradle				
21644	22	0324766	Thrust Washer				
16310	23	0385043	Thrust Bearing				
21135	24	0313448	Cross Pin				
11052	25	0324369	Spring				
22418	26	0439185	Prop Shaft				
16300	27	0382408	Thrust Bearing				
82370	28	0313446	O-ring				
22870	29	0382407	Bearing				
22400	30	0320041	Screw				
81100	31	0332584	O-ring				
86030	32	0330137	Oil Seal				
22230	33	0127084	Thrust Washer				
22250	34	0315810	Prop Spacer				
22150	35	0314503	Prop Nut				
22120	36	0314502	Cotter Pin				
45200	37	0318372	O-ring				
33420	38	0314082	Gasket				
86210	39	0324937	Seal				
21731	40	0318544	Draining Screw				
31170	41	0311598	Gasket				
22420	42	0307551	Screw				
12776	43	0436745	Anode				
22368	44	0313715	Screw				
22366	45	0328096	Screw				
12737	46	0431708	Anode				

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GEARCASE COMPONENTS - V4 60° (1995-2006)

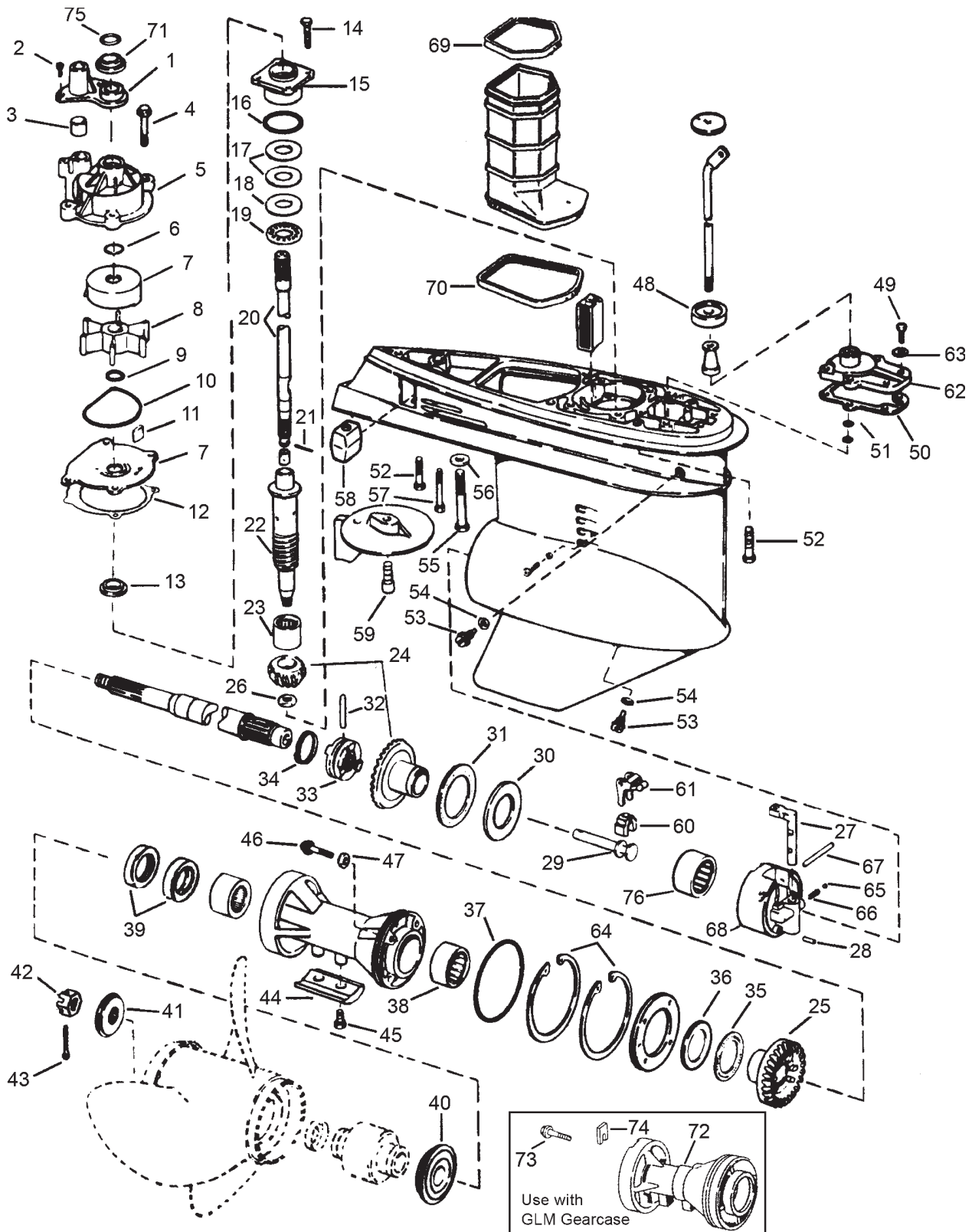
2.00:1 (.50) Gear Ratio



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GEARCASE COMPONENTS - V4 90° (1978-1998)

2.00:1 (.50) Gear Ratio



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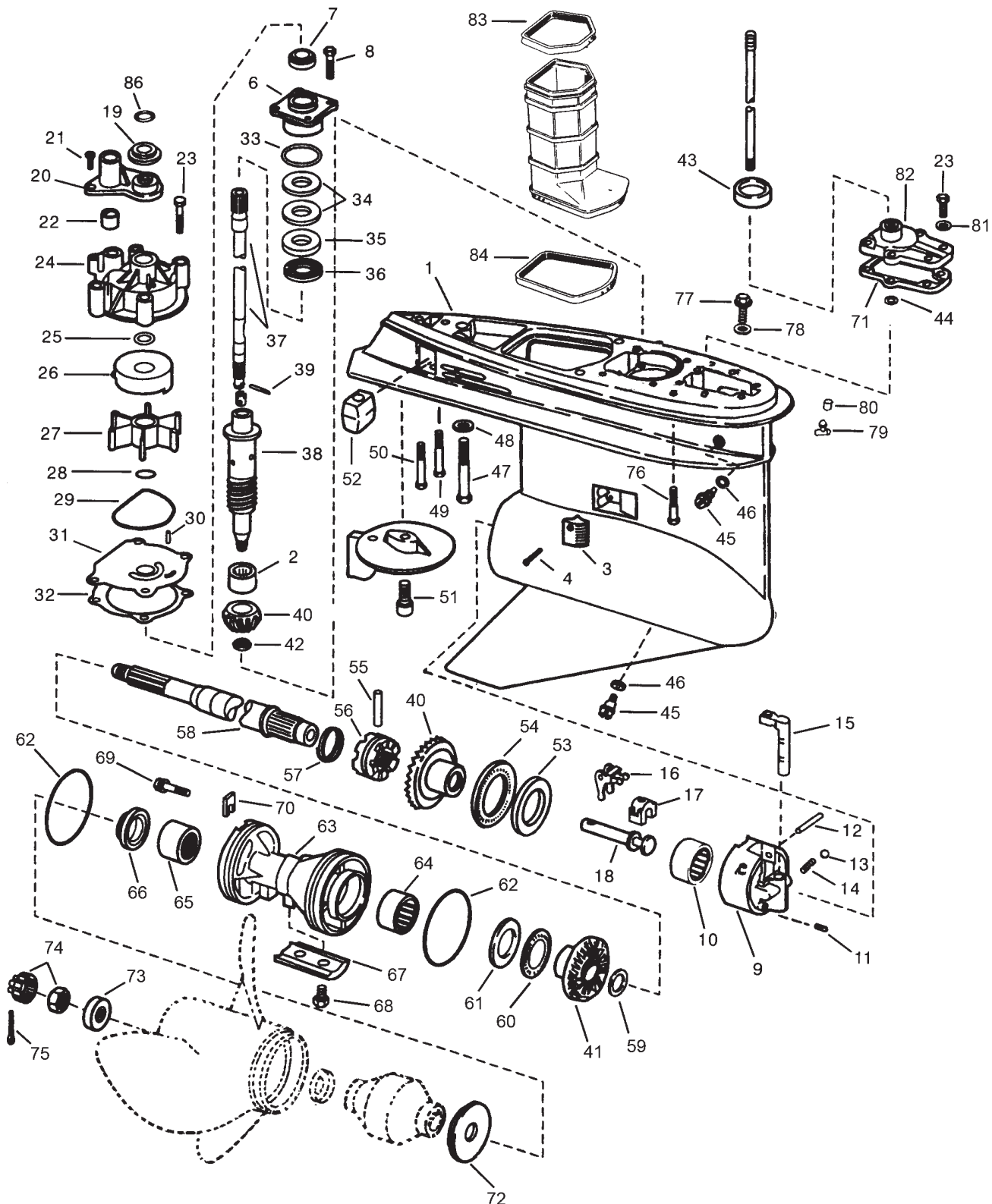
GEARCASE COMPONENTS - V4 90° (1978-1998)

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
12570	1	0338893	Tube Guide	22250	41	0315810	Spacer
22370	2	0306643	Screw	22150	42	0314503	Nut
86490	3	0314088	Grommet	22120	43	0314502	Cotter Pin
22360	4	0302325	Screw	12737	44	0431708	Anode
12430	5	0435959	Pump Housing (25" Transom)	22320	45	0908158	Screw
				22300	46	0316563	Screw & Seal
12395	5	0435990	Pump Housing (20" Transom)	86640	47	0332583	Seal
				86500	48	0321008	Grommet
81250	6	0331188	O-ring	22360	49	0302325	Screw
12880	7	0435027	Cup & Plate Assembly	33020	50	0324670	Gasket
89570	8	5001593	Impeller	45200	51	0318372	O-ring
82120	9	0302035	O-ring	22371	52	0331999	Screw
86660	10	0331353	Seal	21731	53	0318544	Draining Screw
89590	11	0331107	Key	31171	54	0311598	Gasket
33730	12	0338484	Gasket	22365	55	0331998	Screw
86011	13	0341280	Oil Seal	21674	56	0330265	Washer
22362	14	0317624	Screw	22366	57	0328096	Screw
22720	15	0439476	Bearing Housing & Seal	12776	58	0436745	Anode
81380	16	0314728	O-ring	22368	59	0313715	Screw
23590	17	0323362	Shim .003	27730	60	0334163	Cradle
23580	17	0323361	Shim .004	27741	61	0324037	Lever
23510	17	0314745	Shim .005	27752	62	5006241	Cover & Seal Assembly
21645	18	0327656	Thrust Washer	21678	63	0328702	Washer
16330	19	0387656	Thrust Bearing	21774	64	0313445	Retaining Ring
22431	20	5000618	Drive Shaft (L)	22493	65	0327345	Detent Ball
22433	20	5000614	Drive Shaft (L)	11039	66	0911961	Spring
22432	20	5000626	Drive Shaft (XL)	21105	67	0320145	Pin
22434	20	5000623	Drive Shaft (XL)	27702	68	0391365	Housing & Bearing Assembly
21139	21	0311538	Pin	85830	69	0320936	Seal
22409	22	0346006	Lower Drive Shaft	85840	70	0320961	Seal
22880	23	0384195	Pinion Bearing	86480	71	0320943	Grommet
22631	24	0436746	P / Forward Gear Set	11388	72	N/A	Bearing Carrier
22632	25	0340490	Reverse Gear	22373	73	0350271	Screw
11190	26	0314730	Nut	27850	74	0333957	Tab
27720	27	0915954	Detent	81165	75	0310585	O-ring
21138	28	0331880	Pin	22870	76	0382407	Bearing
27710	29	0322941	Shaft				
21644	30	0324766	Thrust Washer				
16310	31	0385043	Thrust Bearing				
21135	32	0313448	Cross Pin				
22633	33	0323664	Clutch Dog				
11052	34	0324369	Spring				
16300	35	0382408	Thrust Bearing				
21642	36	0314731	Thrust Washer				
82370	37	0313446	O-ring				
22870	38	0382407	Bearing				
86030	39	0330137	Oil Seal				
22230	40	0127084	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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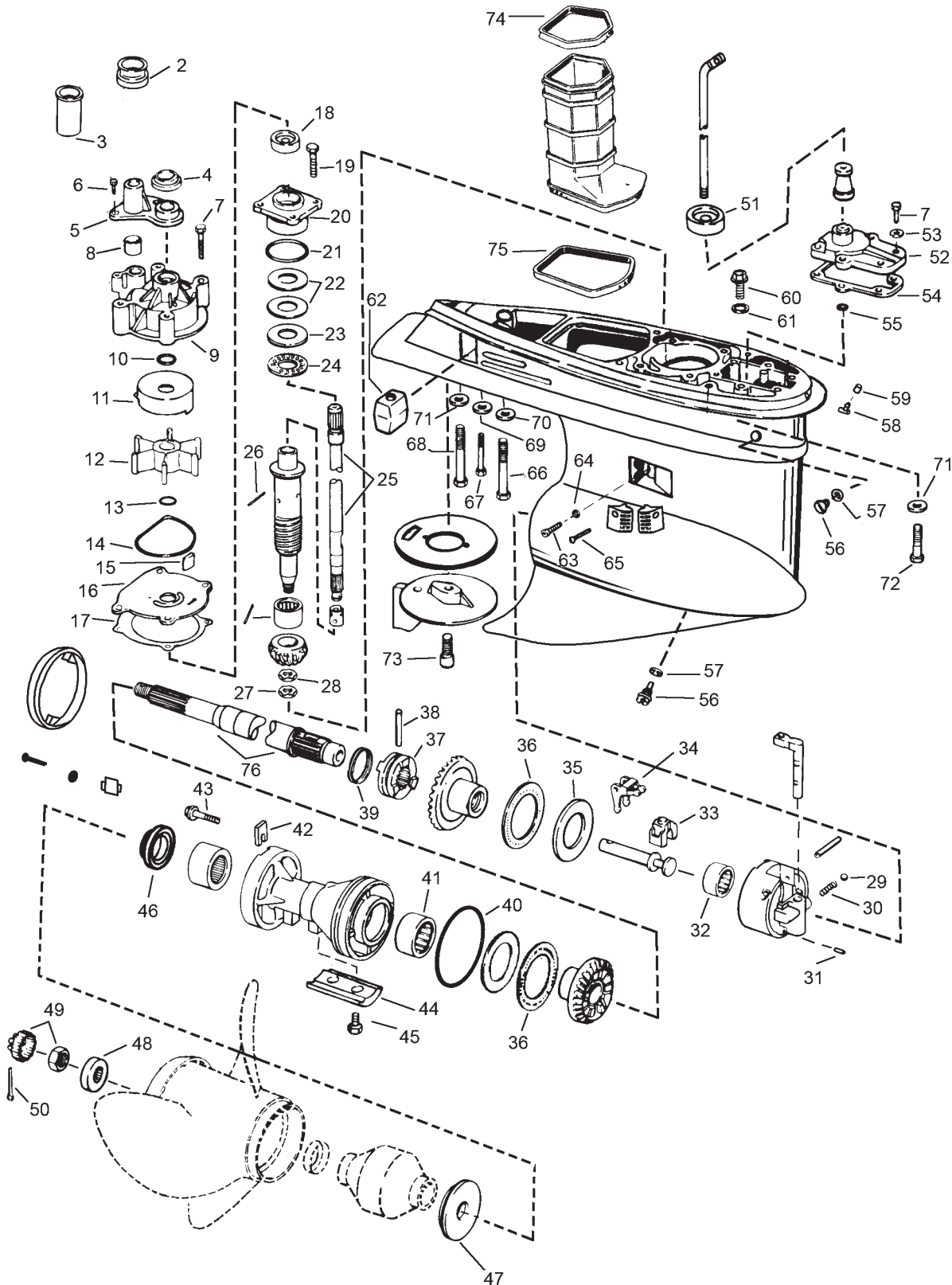
GEARCASE COMPONENTS - V4/V6 "O" TYPE (1979-2006)

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
28700	1	0439973	Gearcase Hsg. w/ Tube - Closeout	11190	42	0314730	Nut
21610	2	0387817	Pinion Bearing (N.S.S.)	86500	43	0321008	Grommet
21885	3	0337778	Screen	45200	44	0318372	O-ring
22363	4	0337061	Screw	21731	45	0318544	Draining Screw
85840	5	0320961	Seal	31171	46	0311598	Gasket
22720	6	0439476	Bearing Housing & Seal	22365	47	0331998	Screw
86011	7	0341280	Oil Seal	21674	48	0330265	Washer
22362	8	0317624	Screw	22366	49	0328096	Screw
27700	9	0389455	Housing & Bearing Assembly	22367	50	0330263	Screw
22910	10	0389039	Bearing	22368	51	0313715	Screw
21138	11	0331880	Pin	12776	52	0436745	Anode
21137	12	0328825	Pin	21646	53	0327669	Thrust Washer
22491	13	0160084	Detent Ball	16340	54	0389042	Thrust Bearing
11055	14	0911962	Spring	21135	55	0313448	Cross Pin
27720	15	0915954	Detent	22625	56	0337774	Clutch Dog
27740	16	0322938	Lever	11052	57	0324369	Spring
27730	17	0334163	Cradle	22414	58	0395209	Prop Shaft (1-3/16") V6
27710	18	0322941	Shaft	22417	58	5004765	Prop Shaft (1-1/4") V4/V6
86480	19	0320943	Grommet	21651	59	0336565	Thrust Washer
12570	20	0338893	Tube Guide	16300	60	0382408	Thrust Bearing
22370	21	0306643	Screw	21642	61	0314731	Thrust Washer
86490	22	0314008	Grommet	82400	62	0305123	O-ring
22360	23	0302325	Screw	11406	63	5000074	Bearing Carrier (1-3/16")
12430	24	0435959	Pump Housing (25" Transom)	11408	63	5004257	Bearing Carrier (1-1/4")
				22870	64	0382407	Bearing
12395	24	0435990	Pump Housing (20" Transom)	11410	65	0387247	Bearing (ID 1-3/16") (N.S.S.)
				22950	65	0434467	Bearing (ID 1-1/4")
81250	25	0331188	O-ring	86012	66	0341281	Oil Seal (1-1/4") 1 pc.
12811	26	0338486	Pump Cup	85130	66	0320862	Oil Seal (1-3/16") 2 pcs.
89570	27	5001593	Impeller	12737	67	0431708	Anode
82120	28	0302035	O-ring	22320	68	0908158	Screw
86660	29	0331353	Seal	22373	69	0350271	Screw
89590	30	0331107	Key	27850	70	0333957	Tab
12580	31	0338485	Wear Plate	33020	71	0324670	Gasket
33730	32	0338484	Gasket	22221	72	0126870	Thrust Washer
81380	33	0314728	O-ring	22190	73	0320570	Spacer
23590	34	0323362	Shim .003	22185	74	0398042	Nut & Keeper
23580	34	0323361	Shim .004	22142	75	0306394	Cotter Pin
23510	34	0314745	Shim .005	22371	76	0331999	Screw
21645	35	0327656	Thrust Washer	22374	77	0341220	Screw
16330	36	0387656	Thrust Bearing	21677	78	0437330	Seal Washer
22435	37	5000615	Drive Shaft (Long)	28352	79	0336535	Nipple
22436	37	5000624	Drive Shaft (XL)	28353	80	0305749	Cap
22407	38	0345905	Lower Drive Shaft	21678	81	0328702	Washer
21139	39	0311538	Pin	27752	82	5006241	Cover & Seal Assembly
22651	40	0435123	P / Forward Gear Set V4	85830	83	0320936	Seal
22623	40	5004938	P / Forward Gear Set V6	85840	84	0320961	Seal
22653	41	0336574	Reverse Gear V4	81165	85	0310585	O-ring
22624	41	0910994	Reverse Gear V6				
22666	40 + 41	N/A	Gear Set (Heavy Duty)				
							N.S.S.= Not Sold Separately

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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



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

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
21610	1	0387817	Pinion Bearing (N.S.S.)	22190	48	0320570	Spacer
86495	2	0338601	Grommet	22185	49	0398042	Nut & Keeper
12827	3	0338636	Tube Spacer	22142	50	0306394	Cotter Pin
86480	4	0320943	Grommet	86500	51	0321008	Grommet
12570	5	0338893	Tube Guide	27752	52	5006241	Cover & Seal Assembly
22370	6	0306643	Screw	21678	53	0328702	Washer
22360	7	0302325	Screw	33020	54	0352165	Gasket
86490	8	0314008	Grommet	45200	55	0318372	O-ring
12430	9	0435959	Pump Housing	21731	56	0318544	Draining Screw
81250	10	0331188	O-ring	31171	57	0311598	Gasket
12811	11	0338486	Pump Cup	28352	58	0336535	Nipple
89570	12	5001593	Impeller	28353	59	0305749	Cap
82120	13	0302035	O-ring	22374	60	0341220	Screw
86660	14	0331353	Seal	21677	61	0437330	Seal Washer
89590	15	0331107	Key	12776	62	0436745	Anode
12580	16	0338485	Wear Plate	22394	63	0324852	Screw
33730	17	0338484	Gasket	80100	64	0305739	Seal
86011	18	0341280	Oil Seal	22363	65	0337061	Screw
22362	19	0317624	Screw	22365	66	0331998	Screw
22720	20	0439476	Bearing Housing & Seal	22327	67	0909386	Screw
81380	21	0314728	O-ring	22367	68	0330263	Screw
23590	22	0323362	Shim .003	21763	69	0307161	Lockwasher
23580	22	0323361	Shim .004	21674	70	0330265	Washer
23510	22	0314745	Shim .005	21762	71	0330266	Lockwasher
21645	23	0327656	Thrust Washer	22371	72	0331999	Screw
16330	24	0387656	Thrust Bearing	22368	73	0313715	Screw
22433	25	5000614	Drive Shaft 20" L	85830	74	0320936	Seal
22434	25	5000623	Drive Shaft 25" L	85840	75	0320961	Seal
22436	25	5000624	Drive Shaft 25" L	22417	76	5004765	Prop shaft
21139	26	0311538	Pin				
11190	27	0314730	Nut				
32800	28	0350038	Washer				
22491	29	0160084	Detent Ball				
11055	30	0911962	Spring				
21138	31	0331880	Pin				
22910	32	0389039	Bearing				
27730	33	0334163	Cradle				
27740	34	0322938	Lever				
21646	35	0327669	Thrust Washer				
16340	36	0389042	Thrust Bearing				
22625	37	0337774	Clutch Dog				
21135	38	0313448	Cross Pin				
11052	39	0324369	Spring				
82440	40	0326849	O-ring				
22870	41	0382407	Bearing				
27850	42	0333957	Tab				
22373	43	0350271	Screw				
12737	44	0431708	Anode				
22320	45	0908158	Screw				
86012	46	0341281	Oil Seal - 1 pc.				
22221	47	0126870	Thrust Washer				

N.S.S.= Not Sold Separately

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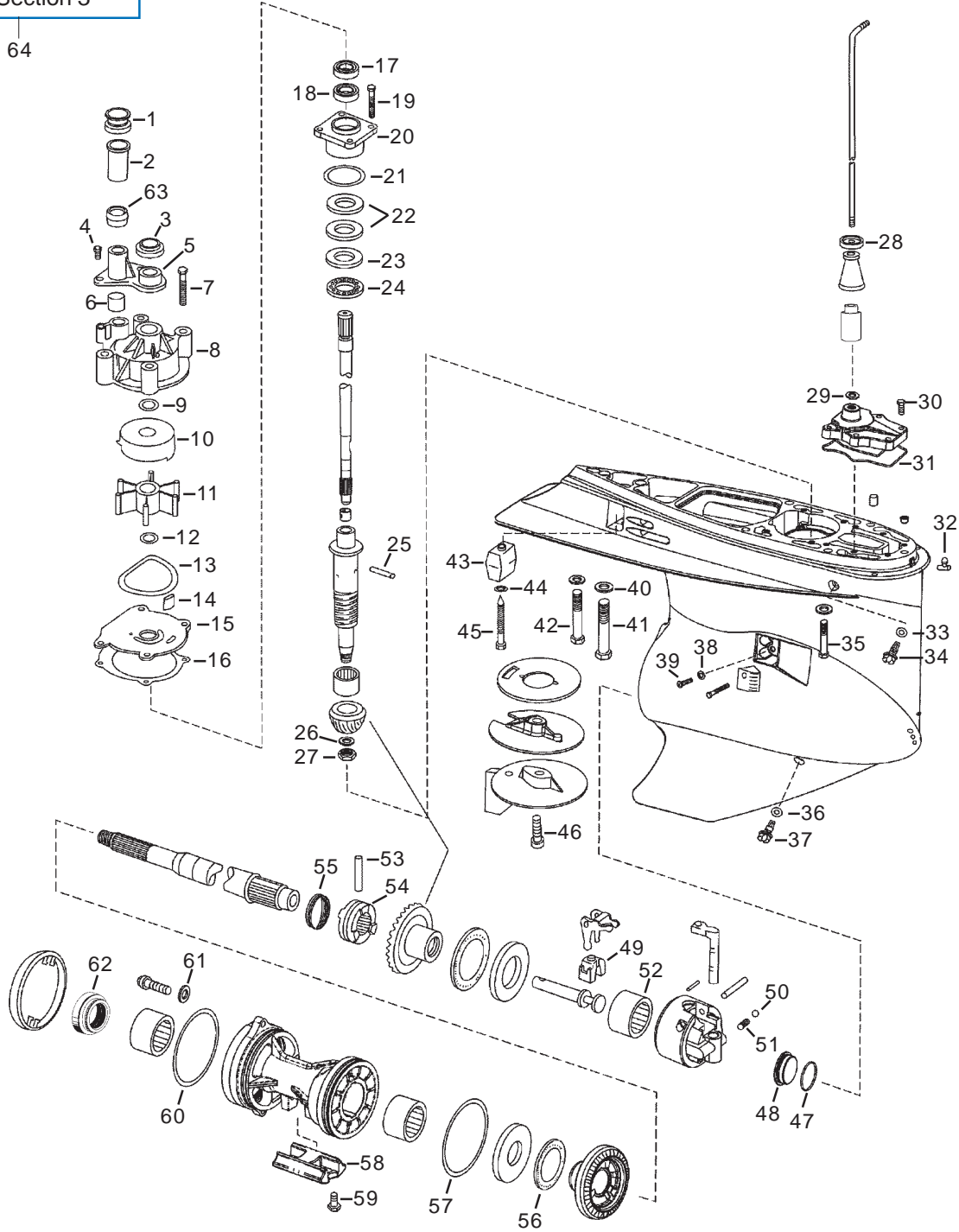
GEARCASE COMPONENTS - "M2" TYPE, 60° V6 150-200 HP & 90° V6 200-300 HP

60° V6 (25") & 90° V6 (20" & 25"), Standard Rotation

Gearcase Seal Kit

No. 87623

See Section 3



Johnson / Evinrude

GEARCASE COMPONENTS - "M2" TYPE, 60° V6 150-200 HP & 90° V6 200-300 HP

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
86495	1	0338601	Grommet	27730	49	0334163	Cradle
12827	2	0354580	Tube Spacer (Short)	22491	50	0160084	Detent Ball
86480	3	0354580	Grommet	11055	51	0911962	Spring
22370	4	0306643	Screw	22910	52	0389039	Bearing
12570	5	0338893	Tube Guide	21135	53	0313448	E-ring (Pin)
86490	6	0314008	Grommet	22625	54	0337774	Clutch Dog
22360	7	0302325	Screw	11052	55	0324369	Spring
12395	8	0435959	Pump Housing	16300	56	0382408	Thrust Bearing
81250	9	0322501	O-ring	82430	57	0911700	O-ring
12811	10	0338486	Pump Cup	12737	58	0431708	Aluminum Anode
89570	11	5001593	Impeller Kit	22320	59	0908158	Screw
82120	12	0302035	O-ring	82430	60	0911700	O-ring
86660	13	0331353	Plate Seal	21659	61	0328743	Washer
89590	14	0331107	Key	86012	62	0341281	Oil Seal
12580	15	0338485	Wear Plate	86489	63	0349354	Grommet (20" models)
33730	16	0338484	Gasket	87623	64	5007700	Gearcase Seal Kit
86240	17	0329922	Oil Seal				
86250	18	0329923	Oil Seal				
22362	19	0317624	Screw				
22720	20	0439476	Bearing Housing & Seal				
81380	21	0354731	O-ring				
23590	22	0323362	Shim .003				
23580	22	0323361	Shim .004				
23510	22	0314745	Shim .005				
21645	23	0327656	Thrust Washer				
16330	24	0387656	Thrust Bearing				
21139	25	0311538	Pin				
32800	26	0350038	Washer				
11190	27	0314730	Pinion Nut				
86500	28	0321008	Grommet				
45200	29	0318372	O-ring				
22351	30	0328725	Screw				
86642	31	0353162	Seal				
28352	32	0336535	Pilot Tube				
31171	33	0311598	Gasket				
21731	34	0318544	Draining Screw Set				
22371	35	0331999	Screw				
31171	36	0311598	Gasket				
21731	37	0318544	Draining Screw Set				
86659	38	0332584	Seal				
22394	39	0324852	Screw				
21674	40	0330265	Washer				
22365	41	0914535	Screw				
22367	42	0330263	Screw				
12776	43	0436745	Aluminum Anode				
21763	44	0307161	Lockwasher				
22327	45	0341219	Screw				
22368	46	0313715	Screw				
81380	47	0354731	O-ring				
27731	48	5007386	Plug				



Section 3

Johnson / Evinrude Gearcase Kits

<i>Complete Gearcase Assembly Kit - V6 "O" Type</i>	<i>40</i>
<i>Gearcase Rebuild Kit - V6 "O" Type</i>	<i>41</i>
<i>Gearcase Seal Kits</i>	<i>42</i>
<i>Gearcase Seal Kits - Mechanical Shift Thru-Prop Exhaust</i>	<i>43</i>
<i>Gearcase Seal Kits - Electric Shift w/ Cavitation Plate Exhaust ...</i>	<i>44</i>
<i>Gearcase Seal Kits - Electric/Hydraulic Shift Thru-Prop Exhaust</i>	<i>44</i>
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<i>Gearcase Seal Kit Applications</i>	<i>46-47</i>
<i>OMC Sea Drive Seal Kit Applications</i>	<i>47</i>

Johnson / Evinrude

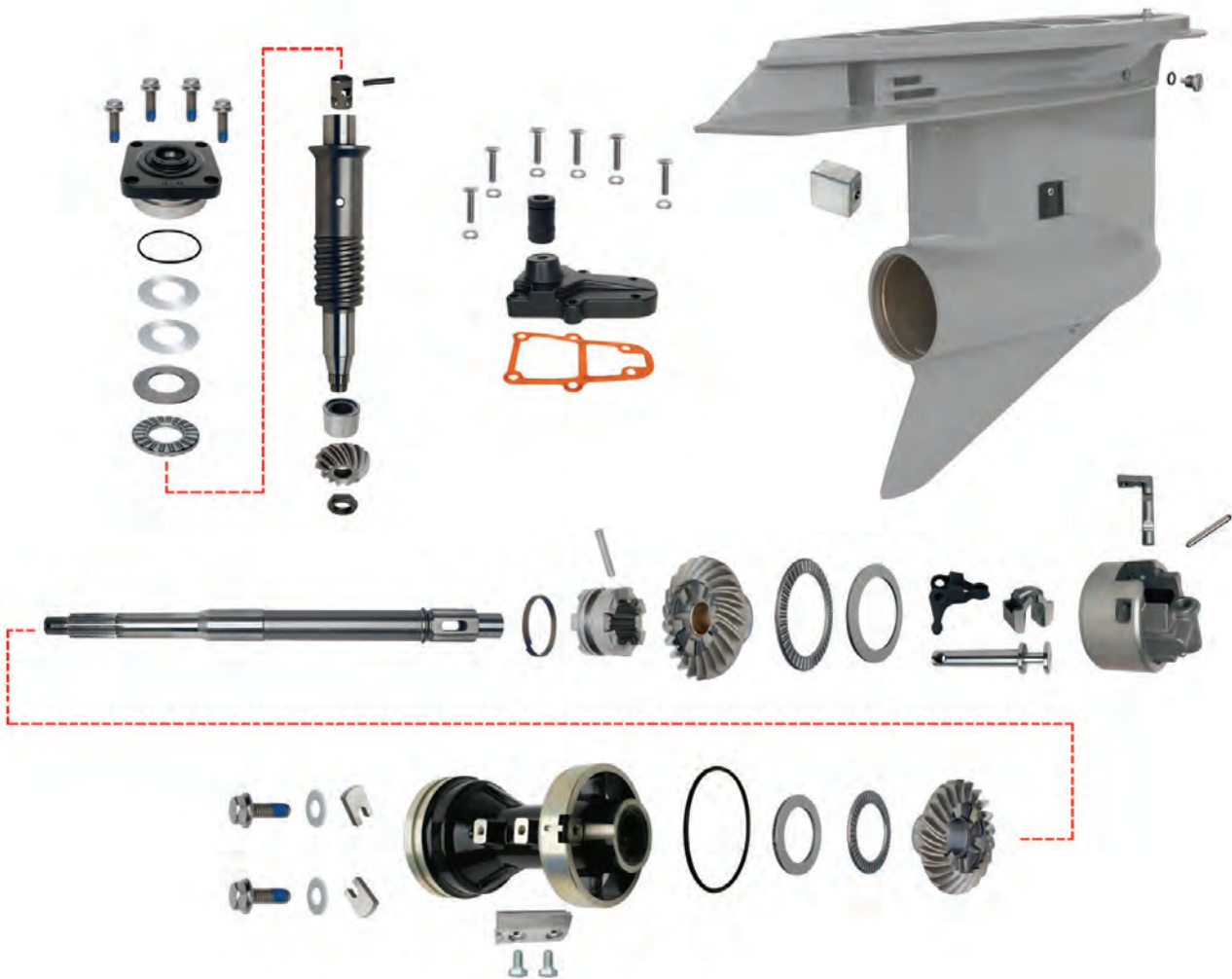
COMPLETE GEARCASE ASSEMBLY KITS - V6 "O" TYPE

No. 28720

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



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



LIMITED TO STOCK ON HAND



Johnson / Evinrude

GEARCASE REBUILD KITS - V6 "O" TYPE (1991 & Up)

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



Johnson / Evinrude

GEARCASE SEAL KITS

No. 87600

OEM: 5006373



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

Kit Contains:

GLM	OEM	ITEM
86030 (2)	0330137	Prop Shaft Seal V4
85130 (2)	0320862	Prop Shaft Seal V4, V6 1-3/16" shaft
86012	0341281	Prop Shaft Seal V4, V6 1-1/4" shaft
85120 (2)	0321453	Drive Shaft Seal (1985 & Before)
86011	0341280	Drive Shaft Seal
86240	0329922	Drive Shaft Oil Seal
86250	0329923	Drive Shaft Oil Seal
81165	0310585	Drive Shaft to Crankcase O-ring
82370	0313446	Prop Shaft Carrier O-ring V4 90° Gearcase
82440 (3)	0326849	Prop Shaft Carrier O-ring V6 60° Gearcase
82400 (2)	0305123	Prop Shaft Carrier O-ring "O"+"M" Type Gearcase
81380	0314728	Drive Shaft Carrier O-ring
45200 (2)	0318372	Shift Cover O-ring
33020	0324670	Shift Cover Gasket
33730	0338484	Water Pump Gasket
21677	0437330	Pitot Hole Plug Sealing Washer
21731 (2)	0318544	Drain Plug and Gasket
*22300 (4)	0316563	Prop Shaft Carrier Screw and Seal

No. 87623

OEM: 5007700



"M2" Type 150-200 HP 60° V6 (25"), 200-300 HP 90° V6 (20" & 25") & 150-300 E-TEC SLE (2008-AB)

Kit Contains:

GLM	OEM	ITEM
27731	5007386	Plug
31171 (2)	0311598	Gasket
33730	0338484	Gasket
45200	0318372	O-ring
81386	0314728	O-ring
86240	0329922	Oil Seal
86250	0329923	Oil Seal
86642	0353162	Seal
86012	0341281	Oil Seal

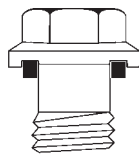
See the Difference!

***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!



Johnson / Evinrude

GEARCASE SEAL KITS

Mechanical Shift Thru-Prop Exhaust

No. 87602

OEM: 0396350



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

No. 87681

OEM: 5007987



15, 25, 30 HP
E-TEC (2009-AA)

No. 87680

OEM: 0396351



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

No. 87614

OEM: 0433550



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

No. 87603

OEM: 0396355



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

No. 87601

OEM: 5000309



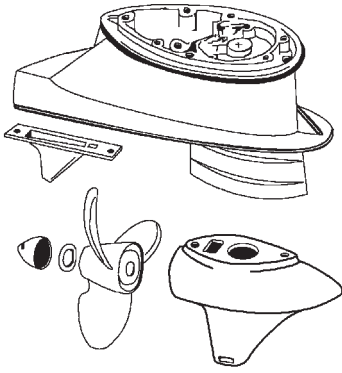
Large Housing
2-Cyl. Loopcharged 40-60 HP (1975-2006)
3-Cyl. Loopcharged 60-75 HP (1975-2001)

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

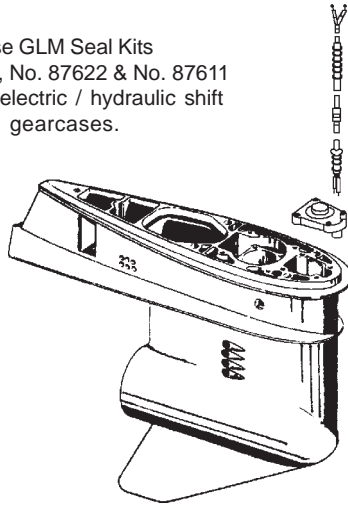
OEM: N/A



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



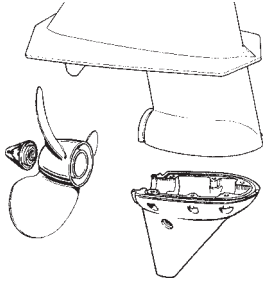
55, 100, 125 HP V4 Crossflow
(1971-1972)

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. 87619

OEM: N/A



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

No. 87690

OEM: 0396352



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

No. 87618

OEM: N/A



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

Johnson / Evinrude

GEARCASE SEAL KIT APPLICATIONS

Models	Year(s)	Seal Kit	Models	Year(s)	Seal Kit
5.5	1955-67	87604	40	1989-Up	87614
6	1955-67	87604	48	1976-88	87603
6	1967-68	87616	48	1989,92-93	87614
6	1968-79	87617	50	1971-74	87622
7.5	1955-67	87604	50	1976-88	87603
9.5 M Suffix	1958-67	87605	50	1989-Up	87614
9.5 B Suffix	1967-73	87618	55	1968-69	87609
9.9/15	1974-Up	87602	55	1976-88	87603
15 / 25 / 30 E-TEC®	2009-AA	87681	60 Elect.	1960-68	87608
10	1958-67	87605	60	1970-71	87609
18	1958-65	87606	60 2-Cyl.	1976-88	87603
20	1966-73	87606	60 3-Cyl.	1978-01	87601
20	1981-82	87619	65 Elect.	1960-68	87608
20	1985-Up	87680	65	1978-01	87601
25	1955-59	87607	70	1978-01	87601
25	1969-78	87606	75 Elect.	1960-68	87608
25	1979-82	87619	75	1978-01	87601
25	1984	87690	75 Small Gearcase	1976-88	87603
25	1985-Up	87680	V4	1978-84	87600
25	1990-95	87614	85 Elect.	1968	87608
25 Comm.	1985-Up	87690	85 Small Prop Shaft	1969-71	87609
28	1962-70	87607	85 Large Prop Shaft	1971-72	87611
28	1985-Up	87690	85 V4	1973-83	87600
30	1955-59	87607	85	1991-95	87600
30	1976-95	87680	88	1985-Up	87600
33	1962-70	87607	90 Elect.	1964-65	87608
35	1955-59	87607	90 V4	1973-83	87600
35	1977-92	87680	90	1985-Up	87600
40 Manual Shift	1960-73	87607	100 Large Prop Shaft	1971-72	87611
40 Elect. Shift	1962-70	87621	100 V4	1973-83	87600
40	1976-88	87603	100 Comm.	1984-95	87600



Johnson / Evinrude

GEARCASE SEAL KIT APPLICATIONS					
Models	Year(s)	Seal Kit	Models	Year(s)	Seal Kit
100	1991-01	87600	200 90° V6 (20 & 25 inch)	-	87623
110 V4	1973-83	87600	V6	1979-92	87600
110	1985-Up	87600	225	1991-95	87600
115 Small Prop Shaft	1969-71	87609	235 V6	1977-86	87600
115 V4	1973-83	87600	V8	1985-91	87600
115	1985-Up	87600	250 V8	1991-95	87600
120	1985-92	87600	300 90° V6 (20 & 25 inch)	-	87623
120	1993-Up	87600	300 V8	1991-95	87600
125 Large Prop Shaft	1971-72	87611	150-300 Evinrude E-TEC® SLE	2008-AB	87623
125	1991-98	87600			
125 Comm.	1991-93	87600			
135 V4	1973-83	87600			
140 V4	1973-83	87600			
140	1985-94	87600			
150 V6	1978-86	87600			
150	1991-95	87600			
150 60° V6 (25 inch)	-	87623			
155 Comm.	1984-93	87600			
175 V6	1977-86	87600			
175	1991-Up	87600			
185	1991-93	87600			
200 V6	1976-86	87600			
200	1991-Up	87600			
200 60° V6 (25 inch)	-	87623			
OMC SEA DRIVE SEAL KIT APPLICATIONS					
Models	Year(s)	Seal Kit	Models	Year(s)	Seal Kit
1.6 L	1985-90	87600	2.7 L	1987	87600
1.8 L	1987	87600	3.0 L	1988-90	87600
2.0 L	1988-90	87600	3.6 L	1987	87600
2.5 L	1984-85	87600	4.0 L	1989-90	87600
2.6 L	1984-86	87600			



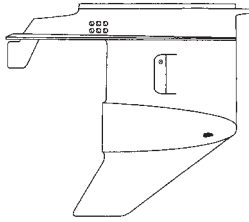
Section 4

Johnson / Evinrude Gears and Clutch Dogs

<i>Lower Gear Housing Gears - 2-Cyl. Loopcharged</i>	<i>50</i>
<i>Lower Gear Housing Gears - 2 & 3 -Cyl. Loopcharged</i>	<i>51-52</i>
<i>Lower Gear Housing Gears - V4 60° & V4 90°</i>	<i>53</i>
<i>Lower Gear Housing Gears - V4 90° "O" Type</i>	<i>54</i>
<i>Lower Gear Housing Gears - V6 Mechanical/Hydraulic Shift</i>	<i>55</i>
<i>Lower Gear Housing Gears - V6 90° "O" Type</i>	<i>56</i>
<i>Lower Gear Housing Gears - V6 90° Heavy Duty</i>	<i>57</i>
<i>Gear Set Applications for 2 & 3-Cyl. & V4</i>	<i>58</i>
<i>Gear Set Applications for V6</i>	<i>59</i>

Johnson / Evinrude

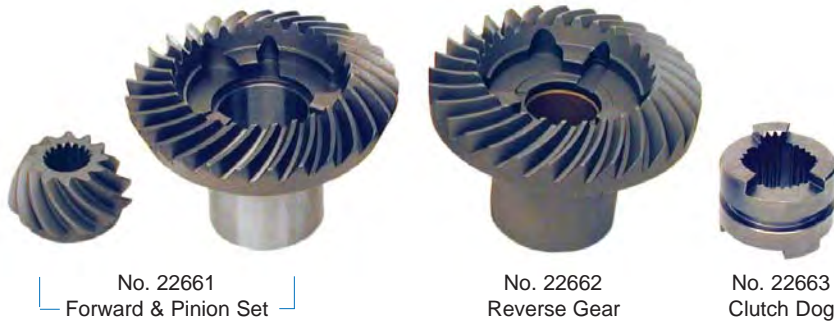
LOWER GEAR HOUSING GEARS - 2-CYLINDER LOOPCHARGED



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



No. 22661
Forward & Pinion Set

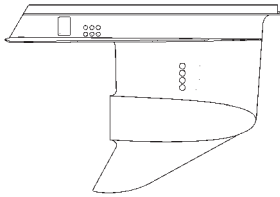
No. 22662
Reverse Gear

No. 22663
Clutch Dog

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. 0397627
REVERSE GEAR - 29 teeth	GLM No. 22662	OEM No. 0332489
CLUTCH	GLM No. 22663	OEM No. 0332491

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



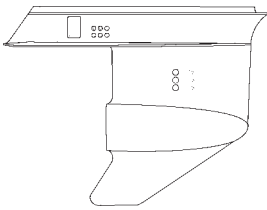
No. 22681
 Forward & Pinion Set with Reverse Gear

No. 22683
 Clutch Dog

<p>COMPLETE GEAR SET</p> <ul style="list-style-type: none"> - Forward/Pinion/Reverse - 12/29 teeth - Comes with the GLM No. 22683 clutch 	<p>GLM No. 22680</p>	<p>OEM No. N/A</p>
<p>FORWARD & PINION SET with REVERSE GEAR</p> <ul style="list-style-type: none"> - 12/29 teeth 	<p>GLM No. 22681</p>	<p>OEM No. 0433570</p>
<p>CLUTCH</p>	<p>GLM No. 22683</p>	<p>OEM No. 0319895</p>

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



No. 22671
 Forward & Pinion Set

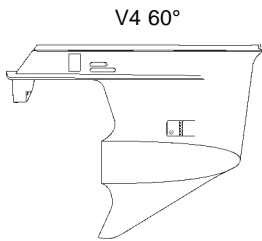
No. 22672
 Reverse Gear

No. 22673
 Clutch Dog

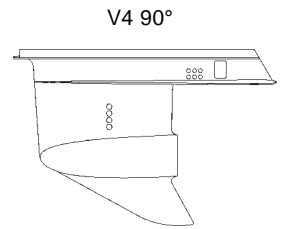
COMPLETE GEAR SET - Forward/Pinion/Reverse - 12/29 teeth - Comes with the GLM No. 22673 clutch	GLM No. 22670	OEM No. N/A
FORWARD & PINION SET - 12/29 teeth	GLM No. 22671	OEM No. 0397338
REVERSE GEAR - 29 teeth	GLM No. 22672	OEM No. 0318304
CLUTCH	GLM No. 22673	OEM No. 0318303

Johnson / Evinrude

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



V4 60°



V4 90°

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

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



No. 22631
Forward & Pinion Set

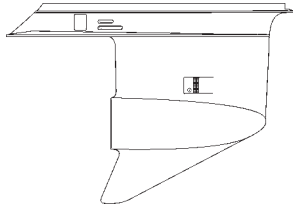
No. 22632
Reverse Gear

No. 22633
Clutch Dog

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. 0436746
REVERSE GEAR - May be used with OMC forward and pinion gears - 26 teeth	GLM No. 22632	OEM No. 0345992
CLUTCH	GLM No. 22633	OEM No. 0323664

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.

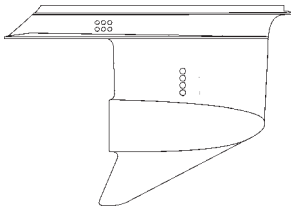
2.25:1 Ratio
.44 Ratio



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. 0435123
REVERSE GEAR - 27 teeth	GLM No. 22653	OEM No. 0336574
CLUTCH	GLM No. 22625	OEM No. 0337774 OEM No. 0914716

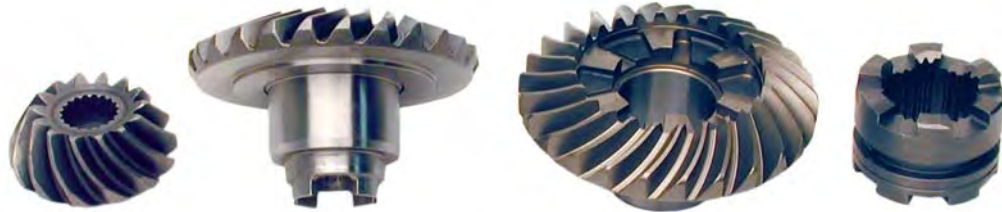
Johnson / Evinrude

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.



No. 22621
Forward & Pinion Set

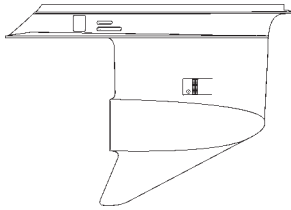
No. 22652
Reverse Gear

No. 22625
Clutch Dog

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. 0437297
CLUTCH	GLM No. 22625	OEM No. 0337774 OEM No. 0914716 OEM No. 0915272

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

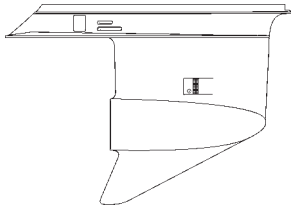


COMPLETE GEAR SET - Forward/Pinion/Reverse - 14/26 teeth - Comes with the GLM No. 22625 clutch	GLM No. 22622	OEM No. 5004218
FORWARD & PINION SET - May be used with OMC reverse gear - 14/26 teeth	GLM No. 22623	OEM No. 0435020 OEM No. 5004216 OEM No. 5004938
REVERSE GEAR - May be used with OMC forward and pinion gears - 26 teeth - Includes thrust washer No. 21651*	GLM No. 22624	OEM No. 0336561 OEM No. 0910994
CLUTCH	GLM No. 22625	OEM No. 0337774

* 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	22681	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

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Johnson / Evinrude

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

Small Gearcase "New"

No. 11051

SPRING
OEM: 0320311



No. 21133

CROSS PIN
OEM: 0320310



No. 22663

CLUTCH DOG
OEM: 0332491



No. N/A

SPRING
OEM: 0332484



No. N/A

SHAFT
OEM: 0332503



No. 27940

CVR. & SEAL ASSY.
OEM: 0434588



No. 22490

DETENT BALLS
OEM: 0316506



No. 82230

O-RING
OEM: 0913921



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

Small Gearcase "Old"

No. 11051

SPRING
OEM: 0320311



No. 21133

CROSS PIN
OEM: 0320310



No. 22683

CLUTCH DOG
OEM: 0319895



No. 27712

SHAFT
OEM: 0320172



N/A

CVR. & SEAL ASSY.
OEM: 0387336
DISCONTINUED



N/A

HSG. & BEARING ASSY.
OEM: 0389637
DISCONTINUED



No. 21105

PIN
OEM: 0320145



N/A

LEVER
OEM: 0320120
DISCONTINUED



No. 27723

DETENT
OEM: 0322636



No. 33420

OEM: 0314082



No. 21138

PIN
OEM: 0331880



No. 27730

CRADLE
OEM: 0334163



No. 22493

DETENT BALL
OEM: 0327345



No. 11039

SPRING
OEM: 0312870



No. 28485

SHAFT & BEARING
HSG. KIT
OEM: N/A



Johnson / Evinrude

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

Large Gearcase

No. 11052

SPRING
OEM: 0324369



No. 21135

CROSS PIN
OEM: 0313448



No. 22673

CLUTCH DOG
OEM: 0318303



No. 27711

SHAFT
OEM: 0326668



N/A

CVR. & SEAL ASSY.
OEM: 0388651
DISCONTINUED



No. 27702

HSG. & BEARING
ASSY.
OEM: 0391365

Includes
Bearing
No. 22870



No. 21105

PIN
OEM: 0320145



No. 27741

LEVER
OEM: 0324037



No. 27722

DETENT
OEM: 0326670



No. 33420

SEAL
OEM: 0314082



No. 21138

PIN
OEM: 0331880



No. 27730

CRADLE
OEM: 0334163



No. 22493

DETENT BALL
OEM: 0327345



No. 11039

SPRING
OEM: 0911961



SHIFT COMPONENTS - V4 60° & V4 90° LOOPCHARGED

Small Gearcase

No. 11052

SPRING
OEM: 0324369



No. 21135

CROSS PIN
OEM: 0313448



No. 22633

CLUTCH DOG
OEM: 0912607



No. 27710

SHAFT
OEM: 0322941



No. 27752

CVR. & SEAL ASSY.
OEM: 5006241



No. 27702

HSG. & BEARING
ASSY.
OEM: 0391365

Includes Bearing
No. 22870



No. 21105

PIN
OEM: 0320145



No. 27741

LEVER
OEM: 0324037



No. 27720

DETENT
OEM: 0915954



No. 33020

SEAL
OEM: 0324670
OEM: 0352165



No. 21138

PIN
OEM: 0331880



No. 27730

CRADLE
OEM: 0334163



No. 22493

DETENT BALL
OEM: 0327345



No. 11039

SPRING
OEM: 0911961



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 CROSS PIN
OEM: 0324369 OEM: 0313448



No. 22625 **No. 27710**

CLUTCH DOG SHAFT
OEM: 0337774 OEM: 0322941



No. 27752

CVR. & SEAL ASSY.
OEM: 5006241



No. 27700
HSG. & BEARING ASSY.
OEM: 0389455

Includes No. 22910
Bearing



No. 21137
PIN
OEM: 0328825



No. 27740 **No. 27720**

LEVER DETENT
OEM: 0322938 OEM: 0915954



No. 33020
SEAL
OEM: 324670
OEM: 0352165



No. 21138
PIN
OEM: 0331880



No. 27730 **No. 22491**

CRADLE DETENT BALL
OEM: 0982422 OEM: 0160084



No. 11055
SPRING
OEM: 0911962



No. 28481
SHAFT & BEARING
HSG. KIT
OEM: N/A



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

Large Gearcase

No. 11052 **No. 21135**

SPRING CROSS PIN
OEM: 0324369 OEM: 0313448



No. 22625 **No. N/A**

CLUTCH DOG SHAFT
OEM: 0337774 OEM: 0348483



No. 27752

CVR. & SEAL ASSY.
OEM: 5006241



No. N/A
HSG. & BEARING ASSY.
OEM: 5001601



No. N/A
PIN
OEM: 0317274



No. 27740 **No. N/A**

LEVER DETENT
OEM: 0322938 OEM: 0347377



No. 33020
SEAL
OEM: 0324670
OEM: 0352165



No. 21138
PIN
OEM: 0331880



No. 27730 **No. 22491**

CRADLE DETENT BALL
OEM: 0334163 OEM: 0160084



No. 11055
SPRING
OEM: 0911962



Johnson / Evinrude

GEARCASE SHIFT COMPONENTS

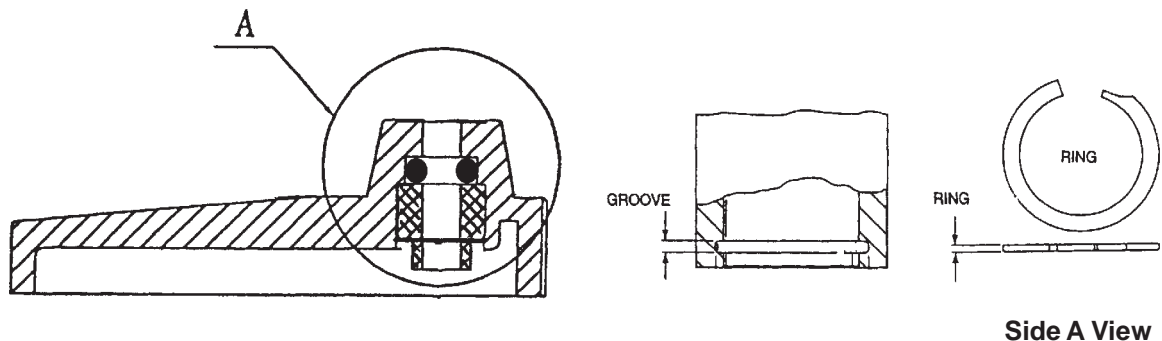
Gearcase Gaskets

<p>No. 34120 SHIFT ROD OEM: 0304764</p> 	<p>No. 33200 SHIFT ROD OEM: 0305512</p> 	<p>No. 34410 SHIFT ROD WASHER OEM: 0321738</p> 	<p>No. 33220 SHIFT ROD COVER OEM: 0304023</p> 
<p>No. 33980 SHIFT COVER OEM: 0912388</p> 	<p>No. 33450 V4 SOLENOID COVER OEM: 0314876</p> 	<p>No. 33511 LOWER GEARCASE OEM: 0324449</p> 	<p>No. 33550 LOWER GEARCASE OEM: 0307099</p> 

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





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
<p>Small Gearcase 40-60 HP 2-Cyl. Loopcharged (1975-1988) 60-75 HP 3-Cyl. Loopcharged (1975-1988)</p>	<p>Small Gearcase 40-50 HP 2-Cyl. Loopcharged (1989-2006)</p>	<p>Large Gearcase 40-60 HP 2-Cyl. Loopcharged (1986-2006) 60-75 HP 3-Cyl. Loopcharged (1975-2001)</p>
<p>No. 86013 OIL SEAL - 1 PC. OEM: 0342786</p> 	<p>No. 86013 OIL SEAL, D.S. OEM: 0342786</p> 	<p>No. 86460 OIL SEAL - TOP OEM: 0332205 No. 86160 OIL SEAL - BOTTOM OEM: 0321466</p>  
<p>No. 22327 SCREW OEM: 0909386</p> 	<p>No. 11422 BEARING, D.S. OEM: 0398874</p> 	<p>No. 86013 OIL SEAL, D.S. OEM: 0342786</p> 
<p>No. 22728 BEARING HSG. ASSY. OEM: 0387067</p> 	<p>No. 22362 SCREW OEM: 0317624</p> 	<p>No. 22327 SCREW OEM: 0909386</p> 
<p>No. 82240 O-RING OEM: 0302588</p> 	<p>No. 27790 BEARING HSG. ASSY. OEM: 0435274</p> 	<p>No. 22722 BEARING HSG. ASSY. OEM: 0385087 No. 22726 BEARING HSG. ASSY. OEM: 0435519</p> 
<p>No. 23530 SHIM 0.003" OEM: 0320166</p> 	<p>No. 82250 O-RING OEM: 0310324</p> 	<p>No. 81340 O-RING OEM: 0313754</p> 
<p>No. 23540 SHIM 0.004" OEM: 0320167</p> 	<p>N/A THRUST WASHER OEM: 0333771</p> 	<p>No. 23600 SHIM 0.003" OEM: 0323889 No. 23610 SHIM 0.004" OEM: 0323890 No. 23620 SHIM 0.005" OEM: 0317232</p> 
<p>No. 23550 SHIM 0.005" OEM: 0320168</p> 	<p>N/A THRUST BEARING OEM: 0398901</p> 	<p>No. 21643 THRUST WASHER OEM: 0317230</p> 
<p>No. 21511 DRIVE SHAFT BEARING OEM: 0385175</p> 	<p>N/A THRUST WASHER OEM: 0333771</p> 	<p>No. 16320 THRUST BEARING OEM: 0385068</p> 
<p>No. 11423 PINION BEARING OEM: 0386766</p> 	<p>No. 11430 PINION BEARING OEM: 0382343</p> 	<p>No. 11430 PINION BEARING OEM: 0382343</p> 
<p>See Section 4 for Gear Sets</p> 	<p>See Section 4 for Gear Sets</p> 	<p>See Section 4 for Gear Sets</p> 
<p>No. 11192 PINION NUT OEM: 0313339</p> 	<p>No. 11192 PINION NUT OEM: 0313339</p> 	<p>No. 11192 PINION NUT OEM: 0313339</p> 

Johnson / Evinrude

DRIVE SHAFT COMPONENTS - V4 & V6

V4 60° & V4 90°		V4 & V6 "O" & "M" Type	
<p>Small Gearcase V4 60° (1995-2006) V4 90° (1978-1998)</p>		<p>Large Gearcase "O" Type (1978-2006) "M" Type (2002-2006)</p>	
<p>No. 86011 OIL SEAL OEM: 0341280</p> 	 <p>N/A LOWER D.S.-V4 60° OEM: 0346004 DISCONTINUED</p>	<p>No. 86011 OIL SEAL OEM: 0341280</p> 	<p>No. 22407 LOWER D.S. "O" TYPE OEM: 0345905</p> 
<p>No. 22362 SCREW OEM: 0317624</p> 		<p>No. 22362 SCREW OEM: 0317624</p> 	
<p>No. 22720 BEARING HSG. & SEAL OEM: 0439476</p> 	<p>No. 22409 LOWER D.S. - V4 90° OEM: 0346006</p> 	<p>No. 22720 BEARING HSG. & SEAL OEM: 0439476</p> 	<p>N/A LOWER D.S. "M" TYPE OEM: 0347371 DISCONTINUED</p> 
<p>No. 81380 O-RING, LOWER OEM: 0314728</p> 		<p>No. 81380 O-RING, LOWER OEM: 0314728</p> 	
<p>No. 23590 SHIM 0.003" OEM: 0323362</p> 	<p>No. 22880 PINION BEARING OEM: 0384195</p> 	<p>No. 23590 SHIM 0.003" OEM: 0323362</p> 	<p>No. 21610 PINION BEARING OEM: 0387817 (Not Sold Separately)</p> 
<p>No. 23580 SHIM 0.004" OEM: 0323361</p> 	<p>See Section 4 for Gear Sets</p> 	<p>No. 23580 SHIM 0.004" OEM: 0323361</p> 	<p>See Section 4 for Gear Sets</p> 
<p>No. 23510 SHIM 0.005" OEM: 0314745</p> 		<p>No. 23510 SHIM 0.005" OEM: 0314745</p> 	<p>No. 32800 WASHER "M" TYPE OEM: 0350038</p> 
<p>No. 21645 THRUST WASHER OEM: 0327656</p> 	<p>No. 11190 PINION NUT OEM: 0314730</p> 	<p>No. 21645 THRUST WASHER OEM: 0327656</p> 	<p>No. 11190 PINION NUT OEM: 0314730</p> 
<p>No. 16330 THRUST BEARING OEM: 0387656</p> 		<p>No. 16330 THRUST BEARING OEM: 0387656</p> 	
<p>N/A RETAINER OEM: 0338504</p> 		<p>N/A RETAINER OEM: 0338504</p> 	
<p>No. 21139 PIN OEM: 0311538</p> 		<p>No. 21139 PIN OEM: 0311538</p> 	

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

40-50 HP Small Gearcase

No. 22900 **No. 22890** **No. 21647** **No. 16350** **No. 16360** **No. 21648** **No. 22870** **No. 22940**

PROP SHAFT BEARING REVERSE GEAR BEARING THRUST WASHER REVERSE GEAR THRUST BEARING REVERSE GEAR THRUST BEARING FORWARD GEAR THRUST WASHER FORWARD GEAR FORWARD GEAR BEARING FORWARD GEAR BEARING
 OEM: 0386765 OEM: 0386764 OEM: 0332514 OEM: 0397537 OEM: 0397538 OEM: 0333725 OEM: 0382407 OEM: 0432264



See Section 4 for Gears

No. 86060

PROP SHAFT SEAL
 OEM: 0321467

No. 11416

BEARING CARRIER W/ BEARINGS & SEALS
 OEM: 0432276

No. 82360

O-RING FOR BEARING CARRIER
 OEM: 0553126



No. 22421

PROP SHAFT
 OEM: 0439138



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

Small Gearcase

No. 22900 **No. 22890** **N/A** **N/A** **N/A** **N/A** **N/A**

PROP SHAFT BEARING REVERSE GEAR BEARING THRUST WASHER REVERSE GEAR THRUST BEARING REVERSE GEAR See Section 4 for Gears THRUST BEARING FORWARD GEAR THRUST WASHER FORWARD GEAR FORWARD GEAR BEARING
 OEM: 0386765 OEM: 0386764 OEM: 0320115 OEM: 0386719 OEM: 0389297 OEM: 0323845 OEM: N/A



No. 86060

PROP SHAFT SEAL
 OEM: 0321467

N/A

BEARING CARRIER
 OEM: 0386920

No. 82320

O-RING FOR BEARING CARRIER
 OEM: 0320303



N/A









PROP SHAFT
 OEM: 0386659



Johnson / Evinrude




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

Large Gearcase

N/A PROP SHAFT BEARING OEM: 0379504	No. 22870 REVERSE GEAR BEARING OEM: 0382407	N/A THRUST WASHER REVERSE GEAR OEM: 0313447	No. 16300 THRUST BEARING REVERSE GEAR OEM: 0382408	See Section 4 for Gears	No. 16310 THRUST BEARING FORWARD GEAR OEM: 0385043	No. 21644 THRUST WASHER FORWARD GEAR OEM: 0324766	No. 22870 FORWARD GEAR BEARING OEM: 0382407
							
	No. 22400 SCREW OEM: 0320041	No. 81100 O-RING OEM: 0332584	No. 86030 PROP SHAFT SEAL OEM: 0330137		No. 82320 O-RING FOR BEARING CARRIER OEM: 0320303	No. 21774 RETAINING RING OEM: 0313445	
							
	No. 22418 PROP SHAFT OEM: 0439185						

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

Small Gearcase

N/A PROP SHAFT BEARING OEM: 0379504	No. 22870 REVERSE GEAR BEARING OEM: 0382407	No. 21642 THRUST WASHER REVERSE GEAR OEM: 0314731	No. 16300 THRUST BEARING REVERSE GEAR OEM: 0382408	See Section 4 for Gears	No. 16310 THRUST BEARING FORWARD GEAR OEM: 0385043	No. 21644 THRUST WASHER FORWARD GEAR OEM: 0324766	No. 22870 FORWARD GEAR BEARING OEM: 0382407
							
No. 22300 SCREW OEM: 0316563	No. 86640 SEAL OEM: 0332583	No. 86030 PROP SHAFT SEAL OEM: 0330137	N/A OEM: 0397087 BEARING CARRIER W/ BEARINGS & SEALS		No. 82370 O-RING FOR BEARING CARRIER OEM: 0313446	No. 21774 RETAINING RING OEM: 0313445	
							
N/A PROP SHAFT OEM: 0436888 DISCONTINUED							

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

Small Gearcase "New" Style

N/A PROP SHAFT BEARING OEM: 0379504	No. 22870 REVERSE GEAR BEARING OEM: 0382407	No. 21642 THRUST WASHER REVERSE GEAR OEM: 0314731	No. 16300 THRUST BEARING REVERSE GEAR OEM: 0382408	See Section 4 for Gears	No. 16310 THRUST BEARING FORWARD GEAR OEM: 0385043	No. 21644 THRUST WASHER FORWARD GEAR OEM: 0324766	No. 22870 FORWARD GEAR BEARING OEM: 0382407
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No. 22373 SCREW OEM: 0350271	No. 27850 TAB OEM: 0333957	No. 86030 PROP SHAFT SEAL OEM: 0330137	N/A BEARING CARRIER W/ BEARINGS & SEALS OEM: 5000440	No. 82370 O-RING FOR BEARING CARRIER OEM: 0313446
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N/A
PROP SHAFT
OEM: 5006310



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

Large Gearcase "New" Style

N/A PROP SHAFT BEARING OEM: 0436752	No. 22870 REVERSE GEAR BEARING OEM: 0382407	N/A THRUST WASHER REVERSE GEAR OEM: 0349193	No. 16340 THRUST BEARING REVERSE GEAR OEM: 0389042	See Section 4 for Gears	No. 16340 THRUST BEARING FORWARD GEAR OEM: 0389042	No. 21646 THRUST WASHER FORWARD GEAR OEM: 0327669	No. 22910 FORWARD GEAR BEARING OEM: 0389039
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No. 22373 SCREW OEM: 0350271	No. 27850 TAB OEM: 0333957	No. 86012 PROP SHAFT SEAL - 1 PC. OEM: 0341281	N/A BEARING CARRIER OEM: 5001587	No. 82440 O-RING FOR BEARING CARRIER OEM: 0326849
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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

<p>No. 11410 PROP SHAFT BEARING OEM: 0387247 (N.S.S.)</p> 	<p>No. 22870 REVERSE GEAR BEARING OEM: 0382407</p> 	<p>No. 21642 THRUST WASHER REVERSE GEAR OEM: 0314731</p> 	<p>No. 16300 THRUST BEARING REVERSE GEAR OEM: 0382408</p> 	<p>See Section 4 for Gears</p> 	<p>No. 16340 THRUST BEARING FORWARD GEAR OEM: 0389042</p> 	<p>No. 21646 THRUST WASHER FORWARD GEAR OEM: 0327669</p> 	<p>No. 22910 FORWARD GEAR BEARING OEM: 0389039</p> 
<p>No. 22373 SCREW OEM: 0350271</p> 		<p>No. 27850 TAB OEM: 0333957</p> 	<p>No. 85130 PROP SHAFT SEAL OEM: 0320862</p> 	<p>No. 11406 BEARING CARRIER W/ BEARINGS & SEALS FOR 1991-UP GEARCASE OEM: 0438039</p> 	<p>No. 11081 KEY OEM: N/A</p> 		<p>No. 82400 O-RING FOR BEARING CARRIER OEM: 0305123</p> 
<p>No. 22414 PROP SHAFT OEM: 0395209 ø 1-3/16" (1979-1990)</p> 							<p>N.S.S. = Not Sold Separately</p>

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

Large Gearcase

<p>No. 22950 PROP SHAFT BEARING OEM: 0434467</p> 	<p>No. 22870 REVERSE GEAR BEARING OEM: 0382407</p> 	<p>No. 21642 THRUST WASHER REVERSE GEAR OEM: 0314731</p> 	<p>No. 16300 THRUST BEARING REVERSE GEAR OEM: 0382408</p> 	<p>See Section 4 for Gears</p> 	<p>No. 16340 THRUST BEARING FORWARD GEAR OEM: 0389042</p> 	<p>No. 21646 THRUST WASHER FORWARD GEAR OEM: 0327669</p> 	<p>No. 22910 FORWARD GEAR BEARING OEM: 0389039</p> 
<p>No. 22373 SCREW OEM: 0350271</p> 		<p>No. 27850 TAB OEM: 0333957</p> 	<p>No. 86012 PROP SHAFT SEAL - 1 PC. OEM: 0341281</p> 	<p>No. 11408 BEARING CARRIER W/ KEY BEARINGS & SEALS FOR 1991-UP GEARCASE OEM: 5000363</p> 	<p>No. 11081 KEY OEM: N/A</p> 		<p>No. 82400 O-RING FOR BEARING CARRIER OEM: 0305123</p> 
<p>No. 21651 THRUST WASHER OEM: 0336565</p> 		<p>No. 22417 PROP SHAFT OEM: 5004765 ø 1-1/4" (1991-2006)</p> 					

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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	-	11430	22900	22890	22870	22940	16350/21647	16360/21648
45 Small New	1989-1997	-	11430	22900	22890	22870	-	16350/21647	16360/21648
45 Large	1987-1997	16320/21643	11430	-	22870	22870	-	16300	16310/21644
48 Small New	1989-1996	-	11430	22900	22890	22870	22940	16350/21647	16360/21648
48 Large	1987-1996	16320/21643	11430	-	22870	22870	-	16300	16310/21644
50 Small Old	1986-1988	21511	11423	22900	22890	-	-	-	-
50 Small New	1989-2005	-	11430	22900	22890	22870	22940	16350/21647	16360/21648
50 Large	1986-2005	16320/21643	11430	-	22870	22870	-	16300	16310/21644
55 Small Old	1986-1988	21511	11423	22900	22890	-	-	-	-
55 Small New	1989-2005	-	11430	22900	22890	22870	-	16350/21647	16360/21648
55 Large	1986-2005	16320/21643	11430	-	22870	22870	-	16300	16310/21644
60 Small Old	1986-1988	21511	11423	22900	22890	-	-	-	-
60 Large	1986-1988	16320/21643	11430	-	22870	22870	-	16300	16310/21644
3-Cylinder Loopcharged (1973-2001) 65-75 HP									
65 Large	1973	16320/21643	11430	-	22870	22870	-	16300	16310/21644
65 Large	1984-2001	16320/21643	11430	-	22870	22870	-	16300	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	-	22870	22870	-	16300	16310/21644
V4 Gearcase (1978-1983)									
85 All	1978-1980	16330/21645	22880	-	22870	22870	-	16300/21642	16310/21644
90 All	1981-1983	16330/21645	22880	-	22870	22870	-	16300/21642	16310/21644
100 All	1980	16330/21645	22880	-	22870	22870	-	16300/21642	16310/21644
115 All	1978-1983	16330/21645	22880	-	22870	22870	-	16300/21642	16310/21644
V4 Gearcase (1984-Up)									
80 Small	1991-1999	16330/21645	22880	-	22870	22870	-	16300/21642	16310/21644
80 "O" Type	1991-1999	16330/21645	21610 (N.S.S.)	22950	22870	22910	-	16300/21642	16340/21646
90 Small	1984-2003	16330/21645	22880	-	22870	22870	-	16300/21642	16310/21644
90 "O" Type	1984-1990	16330/21645	21610 (N.S.S.)	11410 (N.S.S.)	22870	22910	-	16300/21642	16340/21646
90 "O" Type	1991-2003	16330/21645	21610 (N.S.S.)	22950	22870	22910	-	16300/21642	16340/21646
100 Small	1984-2005	16330/21645	22880	-	22870	22870	-	16300/21642	16310/21644
100 "O" Type	1984-1990	16330/21645	21610 (N.S.S.)	11410 (N.S.S.)	22870	22910	-	16300/21642	16340/21646
100 "O" Type	1991-2005	16330/21645	21610 (N.S.S.)	22950	22870	22910	-	16300/21642	16340/21646
115 Small	1984-Up	16330/21645	22880	-	22870	22870	-	16300/21642	16310/21644
115 "O" Type	1984-1990	16330/21645	21610 (N.S.S.)	11410 (N.S.S.)	22870	22910	-	16300/21642	16340/21646
115 "O" Type	1991-Up	16330/21645	21610 (N.S.S.)	22950	22870	22910	-	16300/21642	16340/21646
120 "O" Type	1985-1990	16330/21645	21610 (N.S.S.)	11410 (N.S.S.)	22870	22910	-	16300/21642	16340/21646
120 "O" Type	1991-1994	16330/21645	21610 (N.S.S.)	22950	22870	22910	-	16300/21642	16340/21646
125 "O" Type	1989-1990	16330/21645	21610 (N.S.S.)	11410 (N.S.S.)	22870	22910	-	16300/21642	16340/21646



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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	86030	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	86150	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	1	286460 / 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. 22409

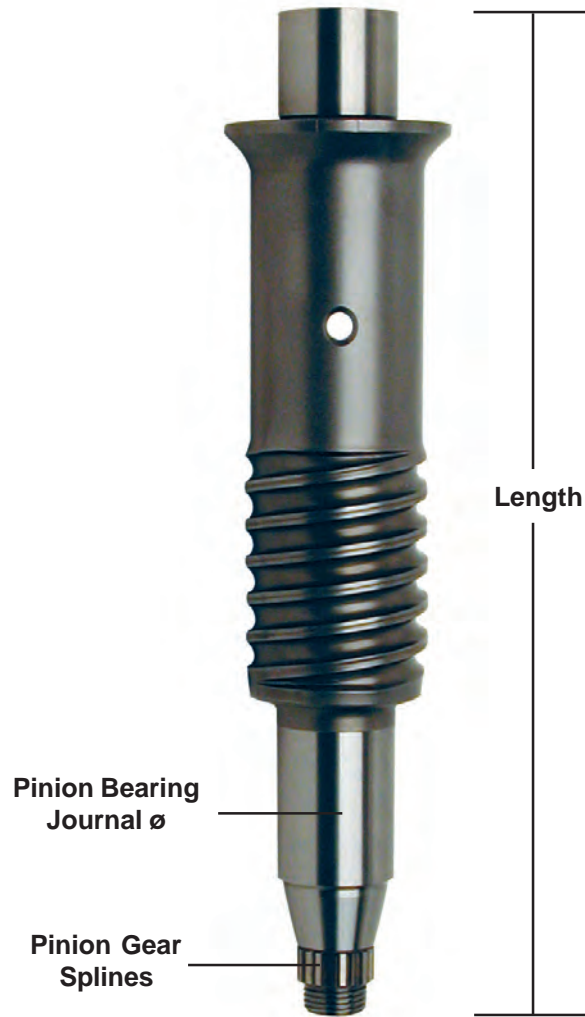
OEM: 0346006
 V4 90°
 Small Gearcase
Length: 8-3/4"
Pinion Bearing Journal ø: 1-1/8"
Pinion Gear Splines: 6

No. 22407

OEM: 0345905
 "O" Type
 Large Gearcase
Length: 9-1/2"
Pinion Bearing Journal ø: 1-1/8"
Pinion Gear Splines: 19

No. 22408

OEM: 0335679
 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	0346006
V4 All Crossflow	1984-1997	"O" Type	22407	0345905
V4 90° Loopcharged	1985-1998	"O" Type	22407	0345905
V4 60°	1995-2006	Small (V4 60°)	-	0346004
V4 60°	1995-2006	"O" Type	22407	0345905
V6 90°	1978-2006	"O" Type	22407	0345905
V6 60°	1991-2006	"O" Type	22407	0345905
V6	2002-2006	"M" Type	-	0347371



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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

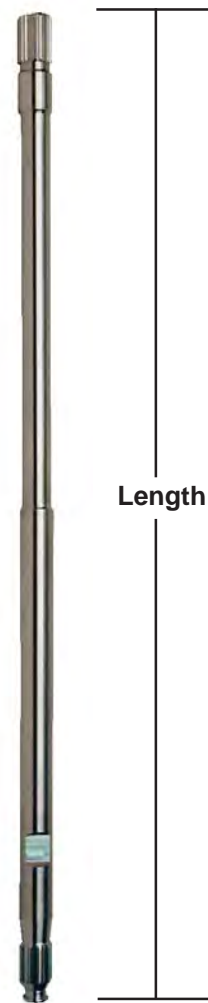
OEM: 5000623
Length: 30-11/16"

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"

Johnson / Evinrude

PROP SHAFT IDENTIFICATION

<p>No. 22421 OEM: 0439138 2-Cyl. Loopcharged (1989-2005) Small Gearcase Length: 13-13/32" Carrier Needle Bearing Journal ϕ: 1.0" Prop Splines: 13 Prop Thrust Washer: No. 22240</p>	<p>No. N/A OEM: 0436834 V4 60° (1995-2006) Small Gearcase Length: 16-9/16" Carrier Needle Bearing Journal ϕ: 1-1/8" Prop Splines: 13 Prop Thrust Washer: No. 22230</p>
<p>No. N/A OEM: 0386659 2 & 3-Cyl. Loopcharged (1975-1988) Small Gearcase Length: N/A Carrier Needle Bearing Journal ϕ: 1.0" Prop Splines: 13 Prop Thrust Washer: No. 22240</p>	<p>No. 22414 OEM: 0395209 "O" Type (1979-1990) Large Gearcase Length: 17-27/32" Carrier Needle Bearing Journal ϕ: 1-3/16" Prop Splines: 15 Prop Thrust Washer: No. 22220</p>
<p>No. 22418 OEM: 0439185 2 & 3-Cyl. Loopcharged (1975-2006) Large Gearcase Length: 14-29/64" Carrier Needle Bearing Journal ϕ: 1-1/8" Prop Splines: 13 Prop Thrust Washer: No. 22230</p>	<p>No. 22417 OEM: 5004765 "O" Type (1991-2006), "M" Type (2001-2006) Large Gearcase Length: 17-7/8" Carrier Needle Bearing Journal ϕ: 1-1/4" Prop Splines: 15 Prop Thrust Washer: No. 22221</p>

No. N/A
 OEM: 0436888
 V4 90° (1978-1998) Small Gearcase
Length: 15-7/16"
Carrier Needle Bearing Journal ϕ : 1-1/8"
Prop Splines: 13
Prop Thrust Washer: No. 22230

The diagram shows a prop shaft assembly. A callout shows a separate Carrier Needle Bearing Journal, which is a ring with a hole in the center. Another callout shows a Prop. Thrust Washer, which is a flat, circular washer. The main shaft has a black handle on the left, a central section with a hole, and a splined section on the right. A dimension line below the shaft indicates its total length.

PROP SHAFT APPLICATIONS

Model	Year	Gearcase Type	Prop Shaft GLM No.	Prop Shaft OEM No.
2 & 3-Cyl. Loopcharged	1975-1988	Small	-	0386659
2-Cyl. Loopcharged	1989-2006	Small	22421	0439138
2 & 3-Cyl. Loopcharged	1975-2006	Large	22418	0439185
V4 All Crossflow	1978-1998	Small (V4 90°)	-	0436888
V4 90° All	1984-1990	"O" Type	22414	0395209
V4 90° All	1991-1998	"O" Type	22417	5004765
V4 60°	1995-2006	Small (V4 60°)	-	0436834
V4 60°	1995-2006	"O" Type	22417	5004765
V6 90°	1978-1990	"O" Type	22414	0395209
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 Impeller & Key Identification</i>	82-83
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<i>Water Pump Kits - 15, 25, 30 HP E-TEC</i>	85
<i>Water Pump Kits - 20, 25, 28, 30 & 35 HP</i>	85
<i>Water Pump Kits - 40, 45, 48, 50 & 55 HP</i>	86
<i>Water Pump Kits - 40, 50 & 60 HP E-TEC</i>	87
<i>Water Pump Kits - 50, 55, 60, 65, 70 & 75 HP</i>	87
<i>Water Pump Kits - 115 HP E-TEC (2007-09)</i>	88
<i>Water Pump Kits - 60, 65, 70, 85, 90, 100 & 115 HP</i>	88
<i>Water Pump Kits - 115 HP E-TEC (2010) & 130 HP E-TEC</i>	89
<i>Water Pump Kits - 90, 115, 120, 135, 140, 150, 175, 200 & 235 HP</i>	89
<i>Water Pump Kits - 150, 175, 200, 225 & 250 HP E-TEC</i>	90
<i>Water Pump Kits - 200, 225 & 250 HP</i>	90
<i>Water Pump Kits Applications</i>	91-93

Johnson / Evinrude

WATER PUMP IMPELLER & KEY IDENTIFICATION

Water Pump Impellers & Keys

For Johnson / Evinrude

4-Stroke, 2-Stroke, Crossflow & LoopCharged Models

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

High volume water pumps use long vane impellers.

High pressure water pumps use short vane impellers.

High Volume / Long Vane Impellers

No. 89790

OEM: 0432941
See Water Pumps
Application Guide for Models
Outside ø: 3.600"
Inside ø: .750"



No. 89710

OEM: 0396725
See Water Pumps
Application Guide for Models
Outside ø: 3.600"
Inside ø: .750"



No. 89592

KEY - BLACK
OEM: 0334897



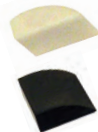
Includes O-ring No. 81250

No. 89591

OEM: 0331901

No. 89592

OEM: 0334897



No. 89660

OEM: 0777213
See Water Pumps
Application Guide
for Models
Outside ø: 2.750"
Inside ø: .625"



No. 89680

OEM: 0777212
See Water Pumps
Application Guide
for Models
Outside ø: 3.500"
Inside ø: .875"



No. 89595

KEY
OEM: 0308928



No. 89595

KEY
OEM: 0308928



No. 89570

OEM: 5001593
See Water Pumps
Application Guide for Models
Outside ø: 3.500"
Inside ø: .875"



No. 89628

OEM: 5031417
See Water Pumps
Application Guide for Models
Outside ø: 2.500"
Inside ø: .625"



No. 89590

KEY
OEM: 0331107



No. 89578

KEY, WOODRUFF
OEM: 5031281



No. 89780

OEM: 0396809
See Water Pumps
Application Guide for Models
Outside ø: 2.750"
Inside ø: .625"



No. 89940

OEM: 0765431
See Water Pumps
Application Guide for Models
Outside ø: 3.600"
Inside ø: .750"



No. 89593

KEY
OEM: 0344470



No. 89595

KEY
OEM: 0308928



Johnson / Evinrude

WATER PUMP IMPELLER & KEY IDENTIFICATION

No. 89380

OEM: 5030723
See Water Pumps
Application Guide
Outside ø: 3.0625"
Inside ø: .8125"



No. 89370

OEM: 5033542
See Water Pumps
Application Guide
Outside ø: 3.375"
Inside ø: .875"



No. 89360

OEM: 5035040
See Water Pumps
Application Guide
Outside ø: 3.4375"
Inside ø: .9375"



No. 89577

KEY, HALF MOON
OEM: 5030591



No. 89576

KEY, HALF MOON
OEM: 5034842



No. 89576

KEY, HALF MOON
OEM: 5034842



High Pressure / Short Vane Impellers

No. 89515

OEM: 0433935
See Water Pumps
Application Guide for Models
Outside ø: 1.1875"
Inside ø: .4375"



No. 89500

OEM: 0389576, 0436137
See Water Pumps
Application Guide for Models
Outside ø: 1.50"
Inside ø: .440"



No. N/A

KEY
OEM: 0335956



No. 89594

KEY
OEM: 0300611



No. 89516

OEM: 5030188
See Water Pumps
Application Guide for Models
Outside ø: 1.625"
Inside ø: .4375"



No. 89770

OEM: 0386084
See Water Pumps
Application Guide for Models
Outside ø: 1.50"
Inside ø: .500"



No. N/A

KEY
OEM: 5030137



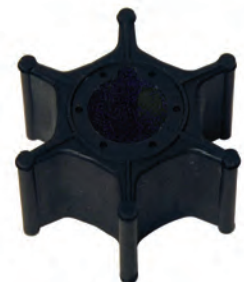
No. 89594

KEY
OEM: 0300611



No. 89647

OEM: 5033112
See Water Pumps
Application Guide for Models
Outside ø: 1.5625"
Inside ø: .50"



No. 89750

OEM: 0395289
See Water Pumps
Application Guide for Models
Outside ø: 1.975"
Inside ø: .625"



No. 89579

KEY
OEM: 5033113



No. 89593

KEY
OEM: 0344470



No. 89990

OEM: 0390286
See Water Pumps
Application Guide for Models
Outside ø: 2.00"
Inside ø: .690"



No. 89595

KEY
OEM: 0308928



GLM
www.glmmarine.com

Johnson / Evinrude

WATER PUMP KITS - 3, 3.5, 4, 4.5, 5, 6, 7.5, 8, 9.9 & 15 HP

Water Pump Repair Kits Complete

No. 12065

OEM: N/A



No. 12137

OEM: N/A



No. 12050

OEM: 0394711



Water Pump Repair Kits w/o Housing

No. 12255

OEM: 0396644



No. 12316

OEM: 5034323



No. 12256

OEM: 0436737



No. 12152

OEM: 5033106



Water Pump Housings

Impeller Kits

No. 12436

OEM: 0389577



No. 89515

OEM: 0433935



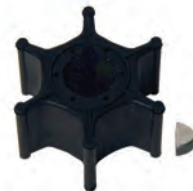
No. 89516

OEM: 5030188



No. 89647

OEM: 5033112



No. 12460

OEM: 0435390



No. 89500

OEM: 0389576



No. 89770

OEM: 0386084



GLM
www.glmmarine.com

Johnson / Evinrude

WATER PUMP KITS - 20, 25, 28, 30, 35 HP & (15, 25, 30 HP E-TEC)

Water Pump Repair Kits Complete

No. 12049

OEM: 5008972



No. 12070

OEM: 393630



No. 12060

OEM: 0395270



Water Pump Repair Kits w/o Housing

No. 12233

OEM: 0437907



No. 15270

OEM: 5036908



No. 15250

OEM: 50321⁶⁶



Water Pump Housings

No. 12470

OEM: 0393632



No. 12440

OEM: 0330560



Impeller Kits

No. 89750

OEM: 0395289



No. 12472

OEM: 0393632



No. 89628

OEM: 5031417



Johnson / Evinrude

WATER PUMP KITS - 40, 45, 48, 50 & 55 HP

Water Pump Repair Kits Complete

No. 12247

OEM: 0391741



No. 12245

OEM: 0438592



No. 12210

OEM: 0439077



No. 12235

OEM: 5000308



**Water Pump Repair Kit
w/o Housing**

No. 15250

OEM: 5032166



Water Pump Housings

Impeller Kits

No. 12474

OEM: 0390613



No. 12450

OEM: 0384087



No. 89990

OEM: 0390286



No. 89790

OEM: 0765350



No. 12480

OEM: 0438544



No. 12482

OEM: 0438545



No. 89780

OEM: 0777214



No. 89710

OEM: 0396725



No. 89628

OEM: 5031417



Johnson / Evinrude

WATER PUMP KITS - 50, 55, 60, 65, 70, 75 HP & (40, 50, 60 HP E-TEC)

Water Pump Repair Kits Complete

No. 12232

OEM: 0389133



No. 12235

OEM: 5000308



No. 12210

OEM: 0439077



No. 12244

OEM: 0438579



No. 12240

OEM: 0438602



Water Pump Housings

Impeller Kits

No. 12450

OEM: 0384087



No. 12482

OEM: 0438545



No. 89660

OEM: 0777213



No. 89710

OEM: 0396725



No. 12400

OEM: 0438543



GLM
www.glimmarine.com

No. 89780

OEM: 0777214



No. 89940

OEM: 0765431



Johnson / Evinrude

WATER PUMP KITS - 60, 65, 70, 85, 90, 100, 105, 115 HP & (115 HP E-TEC)

Water Pump Repair Kits Complete

No. 12246

OEM: 0432955



No. 12101

OEM: 0395073



No. 12102

OEM: 5001594



No. 12000

OEM: 5001595



**Water Pump Repair Kit
w/o Housing**

No. 15320

OEM: 5031731



Water Pump Housings

Impeller Kits

No. 12103

OEM: 0395072



No. 89710

OEM: 0396725



No. 89680

OEM: 0777212



No. 12400

OEM: 0438543



No. 12395

OEM: 0435959



No. 89570

OEM: 5001593



No. 89380

OEM: 5030723



Johnson / Evinrude

WATER PUMP KITS - 90, 115, 120, 135, 140, 150, 175, 200, 235 HP & (115, 130 E-TEC)

Water Pump Repair Kits Complete

No. 12181

OEM: 5007556



No. 12101

OEM: 0395073



No. 12102

OEM: 5001594



Water Pump Repair Kits w/o Housing

No. 12000

OEM: 5001595



No. 15350

OEM: 5037176



No. 15360

OEM: 5033541



Water Pump Housings

Impeller Kits

No. 12103

OEM: 0395072



No. 89680

OEM: 0777212



No. 89370

OEM: 5033542



No. 12399

OEM: 5007554



No. 12430

OEM: 0435990



No. 12395

OEM: 0435959



No. 89570

OEM: 5001593



Johnson / Evinrude

WATER PUMP KITS - 200, 225, 250 HP & (150, 175, 200, 225, 250 HP E-TEC)

Water Pump Repair Kits Complete

No. 12000

OEM: 5001595



No. 12136

OEM: 5007972



No. 12102

OEM: 5001594



No. 15395

OEM: 5035036
+ 5035037



**Water Pump Repair Kit
w/o Housing**

No. 15390

OEM: 5035036



Water Pump Housings

No. 12395

OEM: 0435959



No. 12430

OEM: 0435990



Impeller Kits

No. 89570

OEM: 5001593



No. 12484

OEM: 5035037



No. 89360

OEM: 5035040



Johnson / Evinrude

WATER PUMP KITS APPLICATIONS					
HP	Year(s)	Impeller Kits	Water Pump Repair Kits w/o Housing	Water Pump Repair Kits Complete	Water Pump Housings
Ultra, Excel 4	1987-1988	89515	-	-	-
3	1991-2001	89515	-	-	-
3.5	2002-2006	89515	-	-	-
4	1991-2001	89515	-	-	-
4.5	1980-1984	89500	12255	12065	12436
4 Deluxe	1985-1988	89500	12255	12065	12436
4 Deluxe	1989-1996	89515	12256	12137	12436
4 / 5, 4-Stroke (138cc)	2003-2004	89516	12316	-	-
4 / 5 / 6, 4-Stroke	2005	89516	12316	-	-
5 / 6 / 8	1986-2005	89500	12255	-	12436
5 / 6, 4-Stroke (128cc)	1998-2004	89500	12255	-	12436
8, 4-Stroke (211cc)	1995-2004	89770	-	12050	12460
6 / 7.5 / 8	1980-1985	89500	12255	-	12436
9.9 / 15	1974-2006	89770	-	12050	12460
9.9 / 15, 4-Stroke (305cc)	1995-2001	89770	-	12050	12460
9.9 / 14, 4-Stroke (302cc)	2002-2005	89647	12152	-	-
15 / 25 / 30 Evinrude® E-TEC®	2011 & Up	89750	-	12049	12470
20 / 25	1985-2005	89750	-	12070	12470
25 Commercial	1998-2001	89750	-	12070	12470
25, 4-Stroke	2001-2006	89628	15270	-	-
25	1979-1984	89750	-	12060	12440
25 Commercial / 28 / 114 Commercial	1985-1997	89750	-	12060	12440
25 / 35, 3-Cylinder	1995-2001	89750	-	12233	12472
30, 4-Stroke	1999-2006	89628	15250	-	-
35	1978-1979	89750	-	-	-
30 / 35	1980-1982	89750	-	12070	12470
30 / 35, 2-Cylinder	1983-2005	89750	-	12070	12470
40	1974-1976	89990	-	12247	12474
40 Commercial	1981-1987	89990	-	12247	12474
40 Commercial (RS)	1991-2001	89790	-	-	-
40 Commercial (RS)	1995-2001	89790	-	12245	-
40 Recreational	1984-1985	89780	-	12210	12450
40 / 50	1986-1988	89780	-	12210	12450
40 / 48 / 50	1989-2005	89790	-	12245	12480
40 Commercial (RP, RW)	1993-1994	89780	-	12210	12450
45 / 55 Commercial	1986-1994	89780	-	12210	12450
40 Commercial (RP, RW)	1995-2001	89710	-	12235	12482
45 / 55 Commercial	1995-2001	89710	-	12235	12482
48	1987-1988	89780	-	12210	12450
50	1971-1978	89660	-	12232	12450
40 / 50, 4-Stroke	1999-2006	89628	15250	-	-
40 / 50 Evinrude® E-TEC®	2004-2005	89710	-	12235	12482

Johnson / Evinrude

WATER PUMP KITS APPLICATIONS

HP	Year(s) / SN#	Impeller Kits	Water Pump Repair Kits w/o Housing	Water Pump Repair Kits Complete	Water Pump Housings
60 Evinrude® E-TEC®	2005	89710	-	12235	12482
40 / 50 / 60 Evinrude® E-TEC®	2006-2011	89710	-	12235	12482
50	1979-1985	89780	-	12210	12450
55 Recreational	1976-1978	89660	-	12232	12450
55 Recreational & Commercial	1979-1985	89780	-	12210	12450
60	1980-1985	89780	-	12210	12450
70 / 75	1974-1978	89940	-	12244	12400
60	1986-1988	89710	-	12240	12400
65 Commercial	1986-1987	89710	-	12240	12400
70 / 65 Commercial	1979-1985	89710	-	12240	12400
75	1979-1988	89710	-	12240	12400
60	1989-1994	89710	-	12246	12400
60	1998-2005	89380	15320	-	-
65 Commercial	1988-1994	89710	-	12246	12400
70	1986-1994	89710	-	12246	12400
70	1998-2005	89380	15320	-	-
60 / 65 Commercial / 70	1995-2001	89710	-	12246	12400
85 / 25"	1977	89680	-	12101	12103
85	1978	89680	-	12101	12103
85 / 90	1979-1981	89570	-	12102	12103
90	2003-2006	89370	15360	-	-
90	SN# 029195 & Up	89370	15350	-	-
100	1979-1980	89570	-	12102	12103
105 Commercial	1998-2001	89570	-	12000	-
115 / 25"	1977	89680	-	12101	12103
115	1978	89680	-	12101	12103
115	1979-1981	89570	-	12102	12103
115	2003-2006	89370	15360	-	-
115	SN# 029195 & Up	89370	15350	-	-
115 Evinrude® E-TEC®	2007-2009	89570	-	12000	12395
115 Evinrude® E-TEC®	2010	89570	-	12181	12399
115 HO / 130 Evinrude® E-TEC®	2009-2011	89570	-	12181	12399
140	1977-1978	89680	-	12101	12103
140	1979-1981	89570	-	12102	12103
140	2003-2006	89370	15360	-	-
140	SN# 029195 & Up	89370	15350	-	-
150 / 175 / 200 / 235	1976-1978	89680	-	12101	12103
150 / 175 / 200 / 235	1979-1981	89570	-	12102	12103
V4 / V6 / V8 OB	1982-1992	89570	-	12102	12103
20" & 25" V4 Crossflow	1993-1998	89570	-	12102	12430
90 / 115 Loopcharged (except SL)	1995-2006	89570	-	12102	12430
90 / 115 SL	1995-2006	89570	-	12000	12395





Section 8

Johnson / Evinrude Prop Hardware, Anodes, Tools

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Johnson / Evinrude

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

(See Application Guide)

No. 22120

COTTER PIN
OEM: 0314502



No. 22150

PROP NUT
OEM: 0314503



No. 22250

13 SPLINE WASHER
OEM: 0315810



No. 22240

THRUST WASHER
OEM: 0320305



No. 22340

KIT W/O THRUST WASHER
OEM: 0175267



No. 22245

KIT W/ THRUST WASHER
OEM: 0386866



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

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

No. 22120

COTTER PIN
OEM: 0314502



No. 22150

PROP NUT
OEM: 0314503



No. 22250

13 SPLINE WASHER
OEM: 0315810



No. 22230

THRUST WASHER
OEM: 0127084



No. 22340

KIT W/O THRUST WASHER
OEM: 0175267



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: 03852056



No. 22185

PROP NUT KIT
OEM: 0398042
Comes w/ pin No. 22142



No. 22190

15 SPLINE WASHER
OEM: 0320570



No. 22220

THRUST WASHER
OEM: 0333592



No. 22200

KIT W/O THRUST WASHER
OEM: 0175266



No. 22225

KIT W/ THRUST WASHER
OEM: 0434153



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

No. 22142

COTTER PIN
OEM: 03852056



No. 22185

PROP NUT KIT
OEM: 0398042
Comes w/ pin No. 22142



No. 22190

15 SPLINE WASHER
OEM: 0320570



No. 22221

THRUST WASHER
OEM: 03852020



No. 22200

KIT W/O THRUST WASHER
OEM: 0175266



No. 22186

KIT W/ THRUST WASHER
OEM: N/A



Johnson / Evinrude

PROPELLER HARDWARE

Prop Kits w/o Prop Thrust Washers

No. 22222

OEM: 0175269

Kit Contains:

GLM	OEM	ITEM
22255	0323942	Spline Washer 13-S
22160	0318971	Nut - 7/16" NC 14
22140	0328522	Pin



9.9-15 HP

No. 22350

OEM: 0175268

For 2-Cyl. Crossflow

Kit Contains:

GLM	OEM	ITEM
22260	0323943	Spline Washer 14-S
22170	0318981	Nut - 1/2" NC 13
22130	0320785	Pin



20-35 HP (1980-05)
Thru-Prop Exhaust

Prop Thrust Washers

No. 22270

OEM: 0319890

3/8" Thick
Outside ø 1-3/4"



2-Cyl. Crossflow, 20-35 HP

No. 22240

OEM: 0320305

15/32" Thick
Outside ø 2-1/8"



No. 22241

OEM: 0318966

1/2" Thick
Outside ø 1-1/2"



9.9-15 HP (1974-1988)

No. 22220

OEM: 0333592

17/32" Thick
Outside ø 2-7/8"



"O" Type (1969-1990)

No. 22230

OEM: 0127084

19/32" Thick
Outside ø 2-9/16"



No. 22242

OEM: 0334590

5/8" Thick
Outside ø 1-1/2"



9.9-15 HP (1989-Up)

No. 22221

OEM: 0126870

3/4" Thick
Outside ø 2-7/8"



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

Prop Spline Washers

No. 22255

OEM: 0323942

13 Spline
ø 5/8" Shaft



No. 22260

OEM: 0323943

14 Spline
ø 13/16" Shaft



No. 22250

OEM: 0315810

13 Spline
ø 7/8" Shaft



No. 22190

OEM: 0320570

15 Spline
ø 1" Shaft



Prop Nuts

No. 22160

OEM: 0318971
7/16" NC 14

No. 22150

OEM: 0314503
5/8" NC 11

No. 22170

OEM: 0319891
1/2" NC 13

No. 22185

OEM: 0398042
3/4" NF 16



Cotter Pins

No. 22100

OEM: 0302804

No. 22142

OEM: 0306394

No. 22110

OEM: 0309955

No. 22120

OEM: 0314502

No. 22130

OEM: 0320785

No. 22140

OEM: 0552906



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 & Up	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 Grcs.	1986-1988	22240	22250	22150	22120	22340	22245
2-Cyl. Loopcharged, 40-60 HP, w/ Large Grcs.	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 & Up	22242	22255	22160	22140	22222
20	1985 & Up	22270	22260	22170	22130	22350
25	1985 & Up	22270	22260	22170	22130	22350
30	1985 & Up	22270	22260	22170	22130	22350
35	1976 & Up	22270	22260	22170	22130	22350
40	1984 & Up	22240	22250	22150	22120	22340
45	1985 & Up	22240	22250	22150	22120	22340
48	1987 & 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 & 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 & Up	22230	22250	22150	22120	22340
60	1971	22230	22250	22150	22120	22340
60	1980 & Up	22240	22250	22150	22120	22340
65	1972-73	22230	22250	22150	22120	22340
65 Comm.	1984 & 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 & 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 & Up	22221	22190	22180/22185	22141	22200
155 Comm.	1984-90	22220	22190	22180/22185	22141	22200
155 Comm.	1991 & Up	22221	22190	22180/22185	22141	22200
175	1977-90	22220	22190	22180/22185	22141	22200
175	1991 & Up	22221	22190	22180/22185	22141	22200
185	1984-90	22220	22190	22180/22185	22141	22200
185	1991 & Up	22221	22190	22180/22185	22141	22200
200	1986-90	22220	22190	22180/22185	22141	22200
200	1991 & Up	22221	22190	22180/22185	22141	22200
225	1986-90	22220	22190	22180/22185	22141	22200
225	1991 & 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 & Up	22221	22190	22180/22185	22141	22200
3.6 L	1985-90	22220	22190	22180/22185	22141	22200
300	1991 & 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

<p>No. 12761 ALUMINUM ANODE OEM: 0432397</p>  <p>4, 6, 8 HP (1985-1990)</p>	<p>No. 12762 ALUMINUM ANODE OEM: 0338635</p>  <p>4-Stroke 9.9-15 HP (1995-2001)</p>	<p>No. 12697 ALUMINUM ANODE KIT OEM: 0434029</p>  <p>20-35 HP (1991-Up)</p>	
<p>No. 12737 ALUMINUM ANODE OEM: 0431708</p>  <p>40 HP-V8 (1988-1991)</p>	<p>No. 12742 ALUMINUM ANODE OEM: 0398873</p>  <p>40-50 HP (1989-Up)</p>	<p>No. 12763 ALUMINUM ANODE OEM: 5031705</p>  <p>4-Stroke 40-50 HP (2004 & Up)</p>	
<p>No. 12695 ALUMINUM ANODE KIT OEM: 0392461</p>  <p>50-75 HP (1982-1984) except 55/56 comm.</p>	<p>No. 12738 ALUMINUM ANODE OEM: 0392462</p>  <p>55-75 HP (1985-2001)</p>	<p>No. 12857 ALUMINUM ANODE OEM: 5030907</p>  <p>4-Stroke 60, 70, 90, 115, 140 HP (2004 & Up)</p>	
<p>No. 12683 ALUMINUM ANODE OEM: 0397768</p>  <p>155 HP (1987-1990), 250 HP (1991-1998)</p>	<p>No. 12696 ALUMINUM ANODE KIT OEM: 0392160</p>  <p>V4 & V6 (1982-1986)</p>	<p>No. 12733 ALUMINUM ANODE OEM: 0392133</p>  <p>V4 & V6 (1982-1986)</p>	
<p>No. 12776 ALUMINUM ANODE OEM: 0436745</p>  <p>V4 & V6 (1982-Up)</p>	<p>No. 12739 ALUMINUM ANODE OEM: 0433580</p>  <p>3-Cyl.-V6 (1991-Up)</p>	<p>No. 12736 ALUMINUM ANODE OEM: 0433458</p>  <p>Midsection for 3-Cyl.-V8 (1985-Up)</p>	<p>No. 12730 ALUMINUM ANODE OEM: 0173029</p>  <p>All Outboards</p>

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!



Johnson / Evinrude

PROP WRENCHES

No. 90061

PROP WRENCH
OEM: 91-859046M4

1-1/16"

Color Coded:
Blue



With Built-In
Tab Bender



No. 90062

PROP WRENCH
OEM: 91-859046M3

15/16"

Color Coded:
Red



No. 90063

PROP WRENCH
OEM: 91-859046M2

13/16"

Color Coded:
Yellow



No. 90064

PROP WRENCH
OEM: 91-859046M1

9/16"

Color Coded:
Purple



MARINE SERVICE TOOLS

No. 90150

UNIVERSAL PULLER PLATE
OEM: 91-37241



Pulls gears & bearings.

No. 90095

PROP & BEARING CARRIER PULLER
OEM: N/A



TOES IN
For prop & old
style bearing
carrier.



TOES OUT
For new style
bearing carrier.



Capacity:
5 Tons (min)

For All Style Bearing Carrier and Most Prop.

Johnson / Evinrude

MARINE SERVICE TOOLS

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

No. 90330

SHIMMING TOOL
OEM: N/A

For use with OMC Stringer and Cobra V6 Outboards with "O" Type or "M" Type Gearcases.

Not for use with Magnum Gearcases.



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

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. 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: 0314438



Section 9

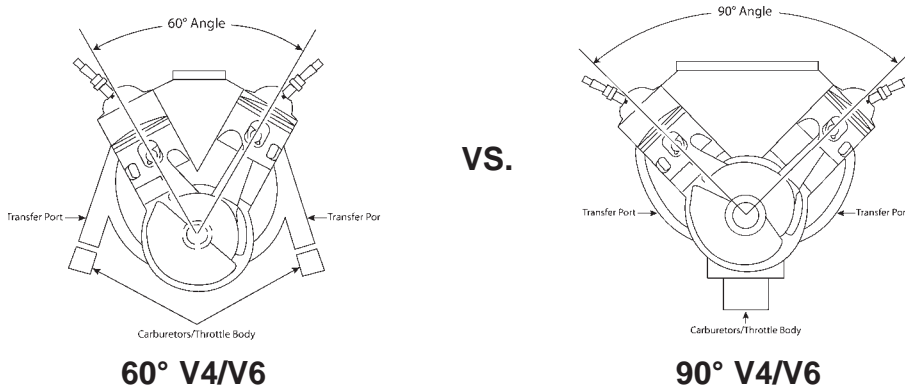
Johnson / Evinrude Pistons

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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.



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

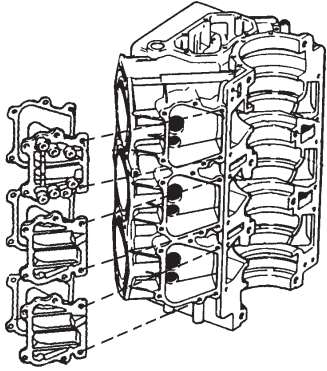
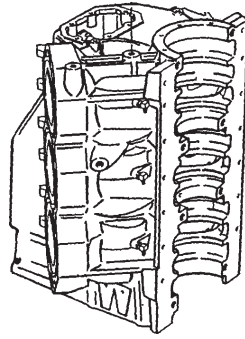




GLM PISTONS ARE 100% CAST



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
<p>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.</p>	<p>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.</p>	<p>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).</p>
		
<p>Removeable Transfer Port Cover</p>	<p>Non-Removeable Transfer Port Cover</p>	
		
<p>Piston with Deflector Top</p>	<p>Piston with Flat Top</p>	<p>Piston with Flat Top and Oil Ring in the Bottom Position</p>

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	0386279
23720	\varnothing 2.1875 +.020	N/A
23730	\varnothing 2.1875 +.030	0386280

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	0396377
24260	\varnothing 3.000 +.020	N/A
24280	\varnothing 3.000 +.030	0396379

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>
N/A	\varnothing 3.1875	5006655 (DISCONTINUED)
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	0391170
24320	\varnothing 3.1875 +.020	N/A
24330	\varnothing 3.1875 +.030	0391416

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	0396377
24260	\varnothing 3.000 +.020	0396378
24280	\varnothing 3.000 +.030	0396379

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	0391170
24320	\varnothing 3.1875 +.020	N/A
24330	\varnothing 3.1875 +.030	0391416

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	0436972
24550	\varnothing 3.1875 +.020	N/A
24560	\varnothing 3.1875 +.030	0436973

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	0394930
24220	ø 3.500 +.020	0439001
24230	ø 3.500 +.030	0396504
24300	ø 3.500 +.040	0439002

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 \varnothing 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	\varnothing 3.625	5006656
23950	\varnothing 3.625 +.020	N/A
23960	\varnothing 3.625 +.030	5006668

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>
24570	\varnothing 3.625	0390509
24580	\varnothing 3.625 +.020	N/A
24590	\varnothing 3.625 +.030	0390510

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	0436353
14180	ø 3.600 +.020	0439029
14190	ø 3.600 +.030	0436354

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	0436353
14180	\varnothing 3.600 +.020	0439029
14190	\varnothing 3.600 +.030	0436354

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 \varnothing 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

GLM Piston No.		Size	OEM Piston No.	
Port	Starboard		Port	Starboard
23800	23810	\varnothing 3.500	5006659	N/A
23820	23830	\varnothing 3.500 +.020	N/A	N/A
23840	23850	\varnothing 3.500 +.030	5006660	N/A

all pistons come with rings, pin and retainers

Rings for above \varnothing 3.500" pistons

GLM Ring No.	Size	OEM Ring No.
24210	\varnothing 3.500	0394930
24220	\varnothing 3.500 +.020	0439001
24230	\varnothing 3.500 +.030	0396504

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 \varnothing 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

GLM Piston No.		Size	OEM Piston No.	
Port	Starboard		Port	Starboard
24050	24100	\varnothing 3.685	5006675, 5006671	5006676, 5006672
24070	24120	\varnothing 3.685 +.020	N/A	N/A
24090	24140	\varnothing 3.685 +.030	5006673, 5006677	5006674, 5006678

all pistons come with rings, pin and retainers

Rings for above \varnothing 3.6875" pistons

GLM Ring No.	Size	OEM Ring No.
24250	\varnothing 3.685	0431870
24270	\varnothing 3.685 +.020	N/A
24290	\varnothing 3.685 +.030	0431844

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 \varnothing 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

GLM Piston No.		Size	OEM Piston No.	
Port	Starboard		Port	Starboard
24150	24160	\varnothing 3.6875	5006691	5006690
24170	24180	\varnothing 3.6875 +.020	5006706	5006712
24190	24200	\varnothing 3.6875 +.030	5006711	5006713

all pistons come with rings, pin and retainers

Rings for above \varnothing 3.6875" pistons

GLM Ring No.	Size	OEM Ring No.
24340	\varnothing 3.6875	0436254
24350	\varnothing 3.6875 +.020	0439538
24360	\varnothing 3.6875 +.030	0436251

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	0437776
24520	\varnothing 65 mm +.030	0437777

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	0436289
24390	\varnothing 65 mm +.030	0436290

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	-	24310	24112	24320	24130	24330	N/A	N/A
48	1987-94	-	24310	24112	24320	24130	24330	N/A	N/A
50	1981-94	-	24310	24112	24320	24130	24330	N/A	N/A
55	1980-93	-	24310	24112	24320	24130	24330	N/A	N/A
45, 55	1994	-	24310	24112	24320	24130	24330	N/A	N/A
60	1980-85	-	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 & Seals

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Johnson / Evinrude

POWERHEAD BEARINGS

Main Bearings

No. 22920

OEM: 0390900



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

No. 22930

OEM: 0398529



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

No. 22840

OEM: 0395401

Metal Cage



ø .8125 Journal Size

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

No. 21860

OEM: 0377139



3-Cyl. Lower Crankshaft
(1968-94)

Center Bearings

No. 22800

OEM: 0378252

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: 0387041

Metal Cage



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

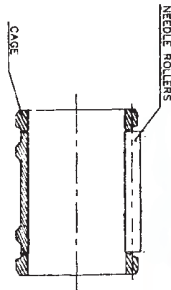
No. 16240

OEM: 0378251

HEAVY DUTY CAGE!



Meet ISO
3030 Standard



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

No. 16220

OEM: 0395627



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: 0434844



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

Connecting Rod Bearings - Big End

No. 22840

OEM: 0395401

Metal Cage



ø .8125 Journal Size

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

No. 16200

OEM: 0437088

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. 22820

OEM: 0387787

Metal Cage



ø 1.375 Journal Size

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

No. 22850

OEM: 0396041

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	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	16240	16200
40	1983	-	22800	16240	16200
40	1984-86	22920	22800	16220	16200
40	1987-97	22930	22800	16220	16200
40 Comm.	1982-83	-	22800	16240	16200
40 Comm.	1984-85	22920	22800	16240	16200
40 Comm.	1989-90	22930	22800	16240	16200
40 Comm.	1994	22930	22800	16220	16200
40 Comm.	1995-00	22930	22800	16220	-
45 Comm.	1987-94	22920	22800	16220	16200
45 Comm.	1995-97	22930	22800	16220	-
45 SS	1987-90	22920	22800	16220	16200
48	1987	22920	22800	16220	16200
48	1988-96	22930	22800	16220	16200
50	1979-83	22920	22800	16220	16200
50	1984-86	22920	22800	16220	16200
50	1987-00	22930	22800	16220	16200
50	1995-00	22930	22800	16220	-
55	1968-69	-	22800	16240	16200
55	1976-81	22920	22800	16220	16200
55 Comm.	1982	22920	22800	16220	16200
55 Comm.	1983-86	22920	22800	16220	16200
55 Comm.	1987-94	22930	22800	16220	16200
55 Comm.	1995-00	22930	22800	16220	-
60	1964-01 / 1970-71	-	22800	16240	16200
60	1980-83	22920	22800	16220	16200
60	1984-85	22920	22800	16220	16200
60	1986-90	22920	22800	16220	16200
60	1991-93	22930	22800	16220	16200
60	1994-01	22930	22800	16220	16200
SST-69	1989-90	22920	22800	16220	-
65	1968	-	22800	16240	16200
65	1972-73	22920	22800	16240	16200



Johnson / Evinrude

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

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Johnson / Evinrude

THERMOSTAT KITS

No. 13450 143°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13080	0396987	Thermostat
34630	0332108	Gasket
34260	0313416	Gasket

3-Cyl.

No. 13275 143°
OEM: N/A




Kit Contains:

GLM	OEM	ITEM
13270	N/A	T-stat Kit
47250	0340975	STBD Hose w/clamps
47260	0340976	Port Hose w/clamps

V4 Crossflow

No. 13270 143°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13010 (2)	0434841	Thermostat
46170 (2)	0318395	Valve
46150 (2)	0317245	Spring
86481 (2)	0321692	Grommet
33650 (2)	0332369	Gasket
34440 (2)	0321932	Gasket

V4 Crossflow

No. 13145 
OEM: 0321693
Valve Body



V4 Crossflow

No. 13500 143°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13720	0338632	Therm.Cover
81250	0331188	O-ring
13826	0351145	Spring
33070	0339044	Gasket
13010	5005440	Thermostat

E40-E60 HP (eTEC)

No. 13345 143°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13760	5008903	Therm.Cover
81250	0331188	O-ring
13826	0351145	Spring
33070	0339044	Gasket
13010	5005440	Thermostat

AB250, 300 (G2), AF200-300 (G2),
AG200-300 (G2), AH200-300 (G2)

No. 13325 133°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13750	0344771	Therm.Cover
82220	0301917	O-ring
36970	0339299	Seal
13827	0345171	Spring
13180	5001036	HF Thermostat

90° V6, 3.3/3.4L, 200-300 HP
(1999-2012, AA, AB)

No. 13326 133°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13750	0344771	Therm.Cover
82220	0301917	O-ring
36970	0339299	Seal
13827	0345171	Spring
13110	0437090	LF Thermostat

V6 Offshore Models (1994-06)
Stainless Steel

No. 13175 143°
OEM: 0434137 + 0394408



Kit Contains:

GLM	OEM	ITEM
13170	0434137	Thermostat
46130	0394408	Diaphragm

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

No. 13350 143°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13010	0434841	Thermostat
30610	0310058	Gasket

90° V4/V6, 6-55 HP

No. 13330 143°
OEM: 0435597



Kit Contains:

GLM	OEM	ITEM
13720	0338632	Therm.Cover
81250	0331188	O-ring
11058	0337067	Spring
13130	0435491	Thermostat

60° V4/V6

No. 13290 143°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13720	0338632	Therm.Cover
81250	0331188	O-ring
11058	0337067	Spring
13130	0435491	Thermostat
13251	0343105	Sleeve

60° V4/V6

No. 13280 143°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13010	0434841	Thermostat
30610	0310058	Seal
33600	0321184	Gasket
46150	0317245	Spring
46100	0320880	Valve Seat
46120	0321222	Valve Diaphragm
46160	0321220	Spring Retainer
46180	0321027	Valve

V6 Crossflow

No. 13310 133°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13730	0332944	Therm.Cover
81250	0331188	O-ring
11058	0337067	Spring
13110	0437090	Thermostat
33070	0339044	Gasket

90° V6 Offshore Models

No. 13260 133°
OEM: N/A



Kit Contains:

GLM	OEM	ITEM
13730	0332944	Therm.Cover
81250	0331188	O-ring
11058	0337067	Spring
13110	0437090	Thermostat
33070	0339044	Gasket
13251	0343105	Sleeve

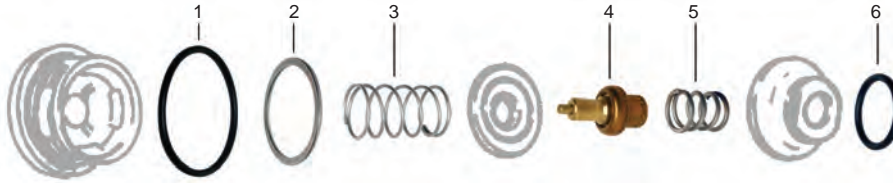
V6 Offshore Models



Johnson / Evinrude

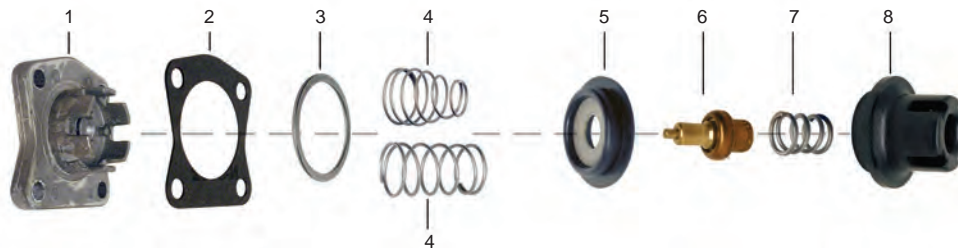
THERMOSTAT ASSEMBLIES

2-Cylinder 25 & 35 HP (1996-2001)



Ref. No.	GLM No.	OEM No.	Item	Ref. No.	GLM No.	OEM No.	Item
1	81290	0308458	O-ring	4	13150	0436195	Thermostat
2	21658	0336185	Washer	5	11038	0336179	Spring
3	11041	0336211	Spring	6	81170	0301967	O-ring

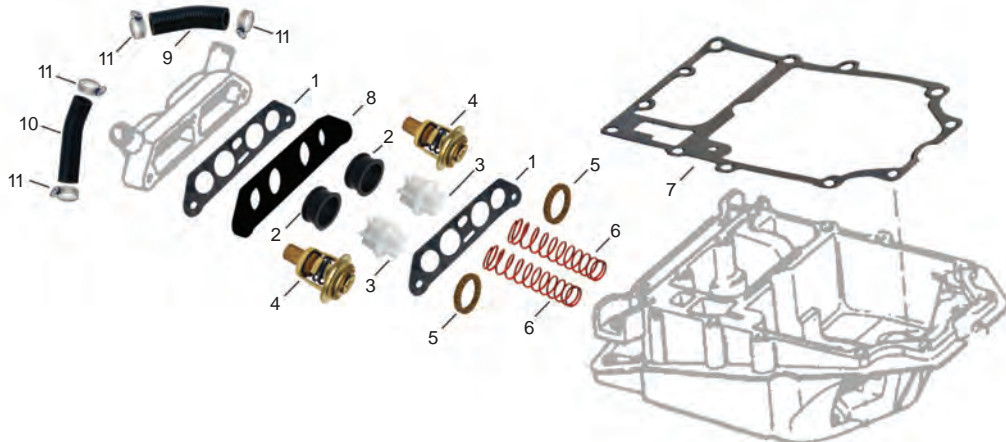
2-Cylinder, 3-Cylinder & V4 Loopcharged (1992-2000)



Ref. No.	GLM No.	OEM No.	Item	Ref. No.	GLM No.	OEM No.	Item
1	13240	0343141	Cover	4	11044	0343020	Spring V4
2	35440	0329830	Gasket	4	11053	0343977	Spring 40-70 HP (1986-01)
3	21658	0336185	Washer	5	46132	0435957	Diaphragm
* 4	11041	0336211	Spring 60-70 HP (1993) & V4	6	13150	0436195	Thermostat
4	11042	0342421	Spring 40-70 HP (1995-96) & V4	7	11038	0336179	Spring
4	11043	0343115	Spring 40-70 HP (1997-98)	8	13570	0336178	Therm. Sleeve

* Use Spring No. 11041 with Thermostat Cover No. 339207

V4 Crossflow

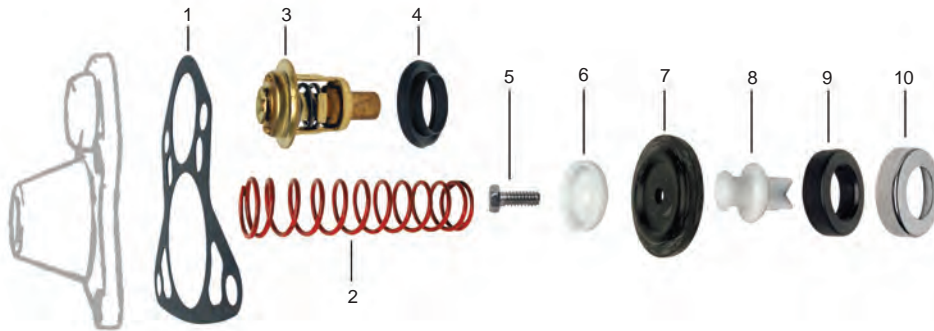


Ref. No.	GLM No.	OEM No.	Item	Ref. No.	GLM No.	OEM No.	Item
1	33650	0332369	Gasket	7	34880	0318373	Gasket (1973-77)
2	86481	0321692	Grommet	7	33640	0342513	Gasket (1978-97)
3	46170	0318395	Valve	8	13145	0321693	Valve Body
4	13010	5005440	Thermostat	9	47260	0340976	Hose, Port
5	34440	0321932	Gasket	10	47250	0340975	Hose, Starboard
6	46150	0317245	Spring	11	01074	0980863	Hose Clamp

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THERMOSTAT ASSEMBLIES

V6 Crossflow



Ref. No.	GLM No.	OEM No.	Item	Ref. No.	GLM No.	OEM No.	Item
1	33600	0321184	Gasket	6	46160	0321220	Spring Retainer
2	46150	0317245	Spring	7	46140	0321221	Diaphragm
3	13010	5005440	Thermostat	8	46180	0321027	Valve
4	30610	0310058	Gasket	9	46100	0320880	Valve Seat
5	22370	0306643	Screw	10	46120	0321222	Valve Cup

THERMOSTATS

<p>No. 13080 143° OEM: 0396987</p>  <p>3-Cyl. (1985 & before)</p>	<p>No. 13010 143° OEM: 0434841, 5005440</p>  <p>6-55 HP, E40-E60HP, V4, V6 Crossflow</p>	<p>No. 13130 143° OEM: 0435491</p>  <p>60° V4 90-115HP (1995-up) 60° V6 150-175HP (1991-up)</p>	<p>No. 13170 143° OEM: 0434137</p>  <p>3-Cyl. (1986-91) V4 Loopcharged & V8</p>	
<p>No. 13150 143° OEM: 0436195</p>  <p>9.9,15,40,48, 50 HP, 3-Cyl., V4</p>	<p>No. 13190 143° VERNATHERM OEM: 0394411</p>  <p>65, 85, 100, 115, 135 HP (1971-1990)</p>	<p>No. 13011 140° OEM: 5033721 (60°c) NEW</p>  <p>BJ90/115/140/200/225 (2003-06), J90/115/140/200/225 (2003-05), 4-Stroke</p>	<p>No. 13110 133° OEM: 0437090 Lower Flow</p>  <p>90° V6 Offshore Models Stainless Steel</p>	<p>No. 13180 133° OEM: 5001036 Higher Flow</p>  <p>90° V6 200-250 Ficht</p>

THERMOSTAT COVERS & O-RING

<p>No. 13240 OEM: 0343141</p>  <p>50-70 HP (1986-up)</p>	<p>No. 13730 OEM: 0332944</p>  <p>2-Cyl. Loopcharged (1997) V6 Offshore Models</p>	<p>No. 13720 OEM: 0338632</p>  <p>60° V4, V6</p>	<p>No. 13760 NEW OEM: 5008903</p>  <p>AB 250 & 300 HP (G2), AF/AG/AH 200-300 HP (G2)</p>	<p>No. 13750 NEW OEM: 0344771</p>  <p>90° V6</p>
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THERMOSTAT & VALVE SPRINGS					
No. 11038 OEM: 0336179 	No. 11041 OEM: 0336211 	No. 11042 OEM: 0342421 	No. 11043 OEM: 0343115 	No. 13826 OEM: 0351145 	No. 13827 OEM: 0345171 
No. 11044 OEM: 0343020 	No. 11045 OEM: 0337067 	No. 11053 OEM: 0343977 	No. 11054 OEM: 0333858 	No. 11058 OEM: 0338174 	No. 46150 OEM: 0317245 
THERMOSTAT HOUSING COMPONENTS					
No. 46110 VALVE CUP OEM: 0330273  V4/V6 Loopcharged	No. 46120 VALVE CUP OEM: 0321222  V6 Crossflow	No. 46132 VALVE DIAPHRAGM OEM: 0435957  2-Cyl., 3-Cyl. V4 Loopcharged	No. 46130 VALVE DIAPHRAGM OEM: 0394408  V4/V6 Loopcharged	No. 46140 VALVE DIAPHRAGM OEM: 0321221  V6 Crossflow	
No. 46100 VALVE SEAT OEM: 0320880  V6 Crossflow	No. 46170 VALVE OEM: 0318395  V4 Crossflow	No. 46180 VALVE OEM: 0321027  V6 Crossflow	No. 46160 SPRING RETAINER OEM: 0321220  V6 Crossflow		
No. 86481 GROMMET OEM: 0321692  V4 Crossflow	No. 13251 THERMOSTAT SLEEVE OEM: 0343105 	No. 13570 THERMOSTAT SLEEVE OEM: 0336178  2-Cyl., 3-Cyl. & V4 Loopcharged	No. 13580 THERMOSTAT SLEEVE OEM: 0337533  90° V6 Loopcharged		
No. 21658 WASHER OEM: 0336185  2-Cyl., 3-Cyl. V4 Loopcharged	No. 10563 ELBOW OEM: 0126776 For 5/16 Hose  60-70 HP (1988 & Up)	No. 10561 ELBOW OEM: 0321886 For 1/4 Hose  9.9-15 (1978-95), 20-35 HP (1978-80) 3-Cyl., V4 (1978 & Up), V6 (1978-92) 40-60 2-Cyl. (1978-90), (1978-91)	No. 10562 ELBOW OEM: 0331894 For 3/8 Hose  V6 (1987-90) Loopcharged with Power Steering V8 (1986-91) w/ Pwr. Steer.		

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THERMOSTAT GASKETS & SEALS

<p>No. 34130 RUBBER GROMMET OEM: 0323582</p>  <p>2-Cyl. Crossflow 9.9-25 HP Thermostat</p>	<p>No. 30610 RUBBER GROMMET OEM: 0310058</p>  <p>2-Cyl. Crossflow 90° V6 Crossflow Thermostat</p>	<p>No. 34110 RUBBER OEM: 0329319</p>  <p>2-Cyl. Crossflow 8-30 HP Thermostat</p>	<p>No. 34260 CORK OEM: 0313416</p>  <p>3-Cyl. Thermostat</p>
<p>No. 36590 RUBBER OEM: 0332130</p>  <p>3-Cyl. Thermostat</p>	<p>No. 33070 RUBBER OEM: 0339044</p>  <p>60° V4, V6 Thermostat</p>	<p>No. 34440 CORK OEM: 0321932</p>  <p>90° V4 Crossflow Thermostat</p>	<p>No. 36970 THERMOSTAT SEAL OEM: 0339299</p>  <p>90° V6</p>

THERMOSTAT COVER GASKETS





<p>No. 35410 OEM: 0329076</p>  <p>6-8 HP</p>	<p>No. 86215 OEM: 0336947</p>  <p>5, 6, 8, 10, 15 HP (1991-2001)</p>	<p>No. 33290 OEM: 0308328</p>  <p>2-Cyl. Crossflow</p>	<p>No. 34000 OEM: 0311145</p>  <p>2-Cyl. Crossflow</p>
<p>No. 33250 OEM: 0305196</p>  <p>2-Cyl. Crossflow</p>	<p>No. 34890 OEM: 0318917</p>  <p>2-Cyl. Crossflow</p>	<p>No. 35440 OEM: 0329830</p>  <p>2 & 3-Cyl. Loopcharged 90° V4 Loopcharged</p>	<p>No. 34630 OEM: 0332108 (1985-1988)</p>  <p>3-Cyl., 49 Cubic Inch</p>
<p>No. 34150 OEM: 0305586</p>  <p>90° V4 Crossflow</p>	<p>No. 33650 OEM: 0332369</p>  <p>90° V4 Crossflow</p>	<p>No. 33600 OEM: 0321184</p>  <p>90° V6 Crossflow</p>	<p>No. 36870 OEM: 0337068</p>  <p>90° V6 Loopcharged</p>

Section 12

Johnson / Evinrude Ignition and Electrical

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Johnson / Evinrude

POINT SETS			RECTIFIERS		
No. 70070 OEM: 0580148 	No. 70200 OEM: 0581207 		No. 72320 OEM: 0583408  3 wire	No. 72350 OEM: 0581778  4 wire	
POINT SETS APPLICATION			RECTIFIER APPLICATION		
Model	Year(s)	Point Sets	Model	Year(s)	Rectifiers
1.5, 2	1968-90	70070	9.9, 15	1974-92	72320
3	1952-68	70070	20	1989-98 (Elec. Start)	72320
4	1965-76	70070	25	1977-03 (2-Cyl.)(Elec. Start)	72320
4	1981-90	70070	28	1989-96	72320
4.5	1981	70200	30	1989-03 (2-Cyl) (Elec. Start)	72320
5	1965-68	70070	35	1976-93 (2-Cyl) (Elec. Start)	72320
5.5	1954-64	70070	40	1974-76, 1988-92	72320
6	1965-76	70070	45	1989-92 (Comm)	72320
7.5	1956-58	70070	45SS	1989-90	72320
9.5	1964-73	70070	48	1989-92	72320
10	1954-63	70070	50	1971-75	72350
15	1956	70200	50	1979-92	72320
15	1974-76	70070	55	1976-77	72350
18	1957-61	70070	55	1978-81, 1980-92 & Comm	72320
18	1962-73	70070	60	1970 (D Models), 1971	72350
20	1962-73	70070	60	1980-88	72320
25	1955	70070	60	1989-91 (EL & TL Models)	72350
25	1969-76	70070	SST 60	1989-90	72350
28	1962-64	70070	65	1972-73, 1988-91	72350
30	1956	70070	70	1992-01	72350
33	1965-70	70070	75	1975-88	72350
35	1958-59	70070	85	1970-80	72350
35	1976	70070	88	1989-92	72350
40	1960-61	70200	90	1981-92	72350
40	1962-73	70070	100	1971, 1979-80, 1984-92 (Except 1992 WTLNE & WTXENE)	72350
40 C	1981-83	70200	115	1973-92	72350
45	1958-59	-	125	1971-72	72350
50	1958-59	-	135	1974 (135443, 135483 Models)	72350
60	1964-67	-	135	1973, 1975-76	72350
75	1960-65	-	140	1977-88	72350
80	1966-67	-	150	1979-88	72350
90	1964-75	-	155	1984-88	72350
100	1966	-	175	1977-83	72350
			185	1984-88	72350
			200	1976-83	72350
			235	1978-88	72350

Section 13

Johnson / Evinrude Carburetor Kits & Fuel Pumps

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Johnson / Evinrude

CARBURETOR SERVICE KITS

No. 40510

OEM: 0439071
w/o Float



No. 40550

OEM: 0439072



No. 40530

OEM: 0439074, 0439075
w/o Float & Filter



No. 40600

OEM: 0439073



No. 40560

OEM: 0396701



No. 40580

OEM: 0439078, 0439079
w/o Float



No. 40520

OEM: 0437327
w/o Float



No. 40540

OEM: 0436959

LIMITED TO STOCK



No. 40570

OEM: 0439076



No. 40590

OEM: 0438996



NEEDLES & SEATS

No. 40720

OEM: 0396522



No. 40710

OEM: 0396521



No. 40700

OEM: 0387262



No. 40730

OEM: 0396520



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	40560	40710
3	1968	40510	40720	65	1972-95	40560	40710
4	1965-78	40510	40720	65	1992-93	40560	40710
4	1983-89	40550	40720	70	1972-95 (3-Cyl.)	40560	40710
4	1991-93	40550	40720	70	1992-93	40560	40710
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	40560	40710	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	40560	40710	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	40560	40710	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	40560	40710	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	40560	40710	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	40560	40710	225	1992-93	40590	40720
45	1971-95	40560	40710	235	1978-84	40570	40700
45	1992	40560	40710	250	1991-93	40590	40720
48	1992-95	40560	40710	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	40560	40710	300	1991-93	40590	40720
55	1968-69,71-95	40560	40710	130/200/225/250	2000	40520	40720
55	1992	40560	40710	135/200/225/250	2001	40520	40720

Johnson / Evinrude

CARBURETOR PARTS & GASKETS

No. 23203

RETAINER
OEM: 0315232



No. 32650

GASKET
OEM: 0307583



No. 31174

PLUG WASHER
CARB. SCREW
OEM: 0317477



No. 37799

GASKET
OEM: 0338883



No. 33100

GASKET
OEM: 0338860



No. 37790

GASKET
OEM: 0335070



No. 37794

GASKET
OEM: 0343512



No. 37760

GASKET
OEM: 0338813



No. 33120

FLOAT BOWL
OEM: 0338878



No. 33130

FUEL BOWL
OEM: 0338880



No. 34090

FUEL BOWL
OEM: 0303750



No. 33140

CARBURETOR BOWL
OEM: 0338884



No. 34831

NOZZLE & FLOAT
BOWL GASKET KIT
OEM: N/A



No. 33260

CARBURETOR BODY
OEM: 0305218



Johnson / Evinrude

GASKETS			
<p>No. 37795 COVER GASKET OEM: 0340616</p> 	<p>No. 37796 COVER GASKET OEM: 0341501</p> 	<p>No. 37797 COVER GASKET OEM: 0334043</p> 	<p>No. 37840 GASKET OEM: 0334353</p> 
<p>No. 37770 GASKET OEM: 0335648</p> 	<p>No. 37780 GASKET OEM: 0327223</p> 	<p>No. 37791 GASKET OEM: 0341085</p> 	<p>No. 37792 GASKET OEM: 0335115</p> 
<p>No. 37793 GASKET OEM: 0340657</p> 	<p>No. 37798 GASKET OEM: 0333348</p> 	<p>No. 34220 HOUSING TO TANK GASKET OEM: 0125530</p> 	<p>No. 33210 FUEL TANK GASKET OEM: 0302557</p> 
<p>No. 86654 SEAL OEM: 0332253</p> 	<p>No. 86656 SEAL OEM: 0344046</p> 	<p>No. 86657 SEAL OEM: 0343613</p> 	<p>No. 86658 SEAL OEM: 0335076</p> 

Johnson / Evinrude

FUEL PUMP KITS & APPLICATIONS

No. 40810

OEM: 0393088



No. 40820

OEM: 0393103



No. 40830

OEM: 0398514



No. 40840

OEM: 0432962



No. 40850

OEM: 0438616



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	-	65 Comm.	1988-89	40830
4.0 Deluxe	1992-93	40810	40	1960-64	-	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	-
6	1977-Up	40810	40	1970-78	40820	80	1966-67	-
6.5	1989-90	40810	40, 50	1988-89	40840	85	1978-83	40820
7.5	1982-83	40810	45	1958-59	-	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	-
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	-
20/25	1977-86	40820	48, 50	1990	40840	100 Comm.	1989-90	40830
20-30	1990-Up	40850	50	1958-59	-	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	-	2.6	1984	40830
25 Comm.	1988-90	40840	60	1988	40830	3.0	1991-93	40810
28	1962-63	-	65	1985-87	40820			
28	1987	40830	65	1990	40830			

KITS COMPONENTS

No. 04095

CHECK VALVE
OEM: 0335334



No. 33110

FUEL PUMP
GASKET
OEM: 0338876



No. 34080

FUEL PUMP
MOUNTING GASKET
OEM: 0303615



No. 33370

FUEL PUMP
GASKET
OEM: 0338879



No. 31172

FUEL PUMP
SCREW GASKET
OEM: 0303630



Washer Fiber

No. 04092

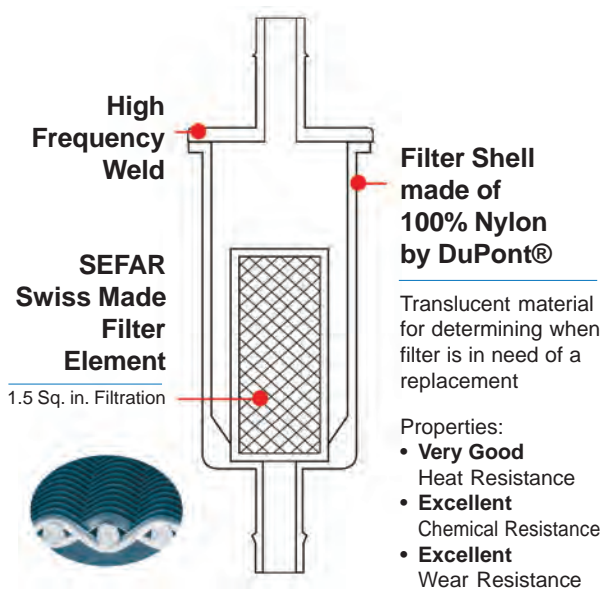
DIAPHRAGM
OEM: 0331307



Johnson / Evinrude

FUEL FILTERS & KITS

GLM's PLASTIC INLINE FUEL FILTERS



NEW PACKAGING!



Brisk Packaging for Easy Opening



No. 40135

OEM: 0435918
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

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

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. 40000

REPLACEMENT FILTER

OEM: N/A

For Transparent Inline Fuel Filters

No. 40140,
No. 40150,
No. 40160

Swiss Made Filter Element



No. 24820

CARB. FUEL FILTER

OEM: 0308239



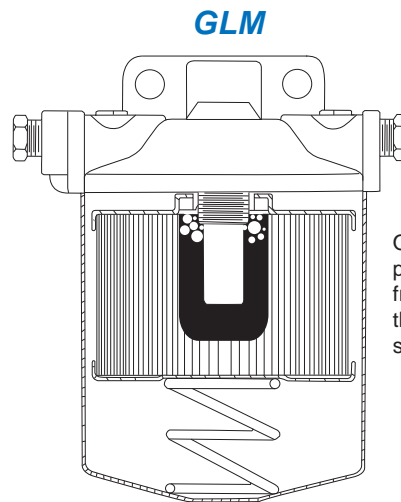
Johnson / Evinrude

ELIMINATE FUEL STARVATION WITH GLM'S LOW PICK-UP WATER / FUEL SEPARATOR MOUNTING BRACKET

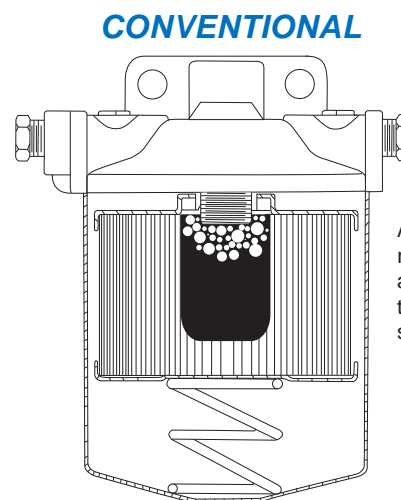
Engine compartment temperatures can soar on hot summer days creating high gasoline temperatures. High temps and agitation caused by rough seas can aerate the gasoline in the water/fuel separator filter turning it into foam. A fuel pump can't pull aerated gasoline from the water/fuel separator and deliver 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 separating filter, GLM has introduced a filter 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!



Our design prevents air from entering the fuel system.



Air molecules rise to top and into the fuel system.

***For trouble free boating always remember to replace your water/fuel separating 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.

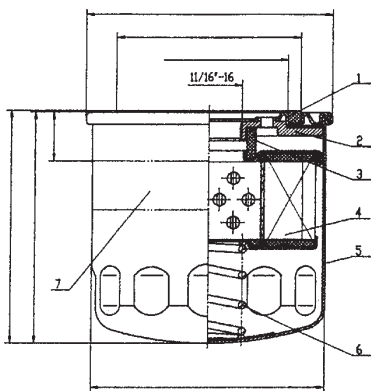
Fuel flow is rated in Gallons Per Hour (GPH). A typical 350/5.7L inboard engine will require 27 GPH at 4,800 rpm, a 454/7.4L inboard engine will require 37 GPH at 4,800 rpm. Selecting a fuel/water separating filter should be based on the amount of fuel the engine requires in GPH at wide open throttle.

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 particulate 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 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 (No. 21887) and 2 extension tubes  ø 1/4" NPTF Ports (2 inputs & 2 outputs)	No. 25030 w/ 2 brass plugs (No. 21884) and 2 extension tubes  ø 3/8" NPTF Ports (2 inputs & 2 outputs)	No. 25011 w/ 2 brass plugs (No. 21887) and 2 extension tubes  ø 1/4" NPTF Ports (2 inputs & 2 outputs)	No. 25031 w/ 2 brass plugs (No. 21884) and 2 extension tubes  ø 3/8" NPTF Ports (2 inputs & 2 outputs)	No. 25000 w/ 2 brass plugs (No. 21887) and 2 extension tubes  ø 1/4" NPTF Ports (2 inputs & 2 outputs)	No. 25020 w/ 2 brass plugs (No. 21884) and 2 extension tubes  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
w/ 2 brass plugs (No. 21887)
and 2 extension tubes



No. 24958

(24940+25030)
OEM: N/A

28 Micron

ø 3/8" NPTF Ports
Flow: 75 GPH
w/ 2 brass plugs (No. 21884)
and 2 extension tubes



No. 24957

(24942+25010)
OEM: N/A

10 Micron

ø 1/4" NPTF Ports
Flow: 50 GPH
w/ 2 brass plugs (No. 21887)
and 2 extension tubes



No. 24959

(24942+25030)
OEM: N/A

10 Micron

ø 3/8" NPTF Ports
Flow: 75 GPH
w/ 2 brass plugs (No. 21884)
and 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
w/ 2 brass plugs (No. 21887)
and 2 extension tubes



No. 24962

(24940+25031)
OEM: N/A

28 Micron

ø 3/8" NPTF Ports
Flow: 75 GPH
w/ 2 brass plugs (No. 21884)
and 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
w/ 2 brass plugs (No. 21887)
and 2 extension tubes



No. 24953

(24940+25020)
OEM: N/A

28 Micron

ø 3/8" NPTF Ports
Flow: 75 GPH
w/ 2 brass plugs (No. 21884)
and 2 extension tubes



No. 24952

(24942+25000)
OEM: N/A

10 Micron

ø 1/4" NPTF Ports
Flow: 50 GPH
w/ 2 brass plugs (No. 21887)
and 2 extension tubes



No. 24954

(24942+25020)
OEM: N/A

10 Micron

ø 3/8" NPTF Ports
Flow: 75 GPH
w/ 2 brass plugs (No. 21884)
and 2 extension tubes



Section 14

Johnson / Evinrude Powerhead Gaskets

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Johnson / Evinrude

1 & 2-CYLINDER HEAD GASKETS

No. 33850

OEM: 0313782



2 HP 1-Cyl.
(1969-1990)

No. 34010

OEM: 0203130



4 HP 2-Cyl.
(1968-1980)

No. 33860

OEM: 0332010



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

No. 33830

OEM: 0329103



6 HP 2-Cyl.
(1959-1979)

No. 36310

OEM: 0325273



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

No. 34140

OEM: 0330818



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

No. 36020

OEM: 0338222



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

No. 35840

OEM: 0319633



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

No. 34570

OEM: 0329419



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

No. 35990

OEM: 0307069



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

No. 34250

OEM: 0335359



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

Johnson / Evinrude

3-CYLINDER & V4 HEAD GASKETS

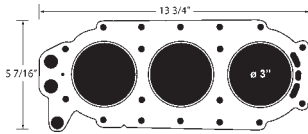
3-Cylinder Head Gaskets



No. 33400

OEM: 0313413

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



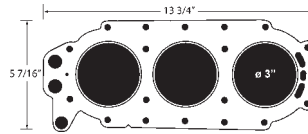
No. 35830*

OEM: 0332816

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

Thicker

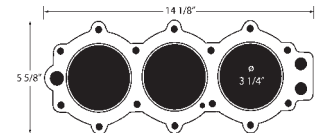
*Same as No. 33400 except thicker to lower cylinder compression for low octane fuel.



No. 34280

OEM: 0329836

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



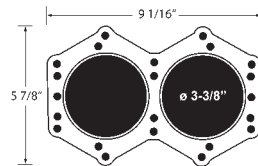
V4 Head Gaskets



No. 34030

OEM: 0306048

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



No. 33540

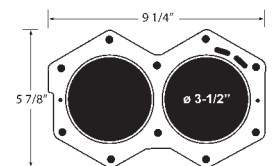
OEM: 0318358

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



New Material!

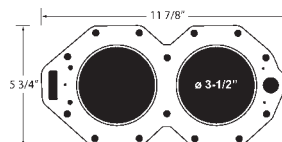
- 99% Graphite
- Over 1300°F Temp. Range
- Racing Grade Gasket



No. 34400

OEM: 0328623

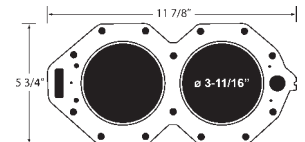
Fits (1985-1987)
90° V4 Loopcharged Engines
with a ø 3.500" Piston



No. 35930

OEM: 0340115

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



Johnson / Evinrude

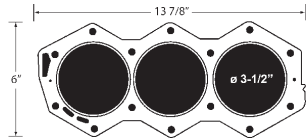
V6 & V8 HEAD GASKETS



No. 33870

OEM: 0335360

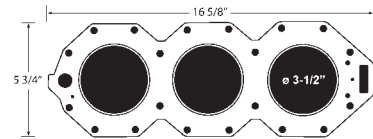
Fits (1976-1991)
90° V6 Crossflow Engines
with a \varnothing 3.500" Piston



No. 35950

OEM: 0331211

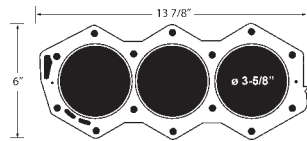
Fits (1985-1987)
90° V6 Loopcharged Engines
with a \varnothing 3.500" Piston



No. 34240

OEM: 0335361

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

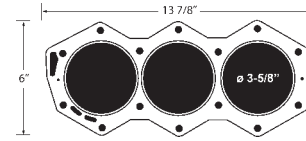


No. 35960*

OEM: 0332818

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

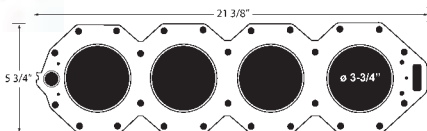
*Same as No. 34240
except thicker to lower
cylinder compression
for low octane fuel.



No. 35970

OEM: 0340116

Fits (1994-1998)
90° V8 Loopcharged Engines
with a \varnothing 3.685" 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	-			
135, 140 V4 Crossflow	1973-84	-			
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	-			
175 V6 Crossflow	1986-92	34240			
200, 225 V6 Loopcharged	1986-87	35950			
200, 225 Loopcharged V6, 3 L	1988-93	-			
200, 225, 250 V6 Loopcharged, 3L	1994-01	-			
235 V6 Crossflow	1978-79	33870			
235 V6 Crossflow	1980-85	34240			
235 V6 Crossflow	1978-79	-			
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: 0394546



9.9-15 HP
(1984-1992)

No. 39353

OEM: 0436358



9.9-15 HP
(1993-1999)

No. 39420

OEM: 0433941



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

No. 39355

OEM: 0390700



40 HP Comm., Crossflow
(1983-1986)

No. 39370

OEM: 0439083



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

No. 39350

OEM: 0390078



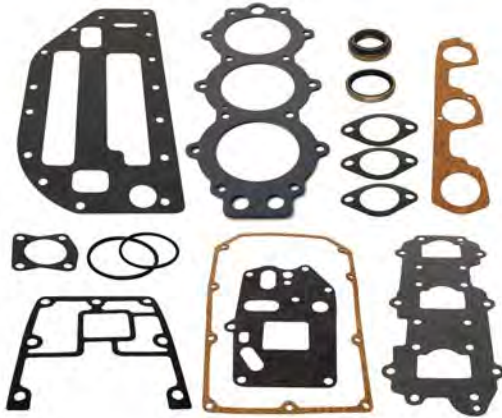
60-70 HP, 3-Cyl.
(1979-1988)

Johnson / Evinrude

POWERHEAD GASKET KITS

No. 39390

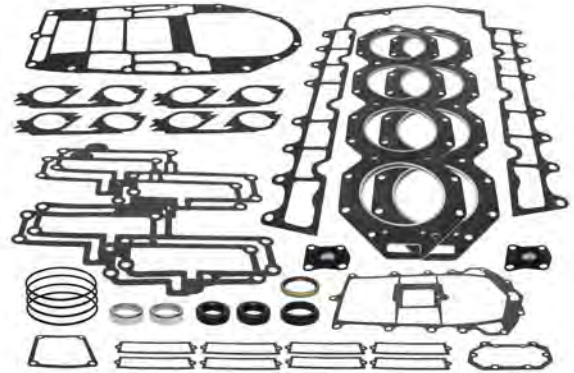
OEM: 0438904



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

No. 39070

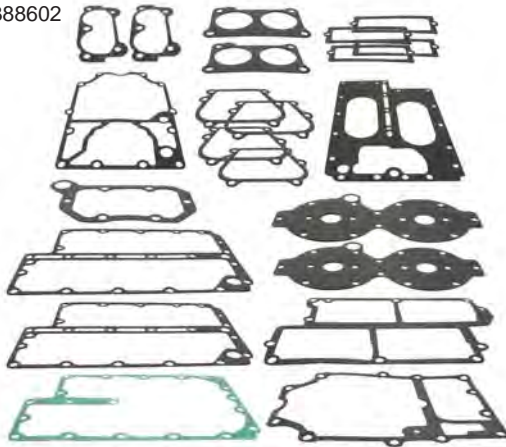
OEM: 0398693



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

No. 39360

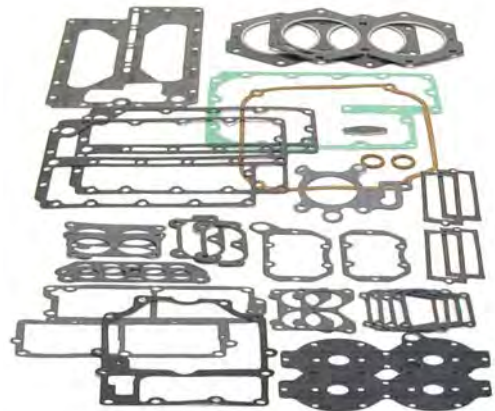
OEM: 0388602



90° V4 Crossflow
(1973-1977)

No. 39080

OEM: 0439085



90° V4 Crossflow
(1978-1994)

No. 39354

OEM: 0396750



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

No. 39400

OEM: 0432570



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

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POWERHEAD GASKET KITS

No. 39351

OEM: 0439559



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

No. 39356

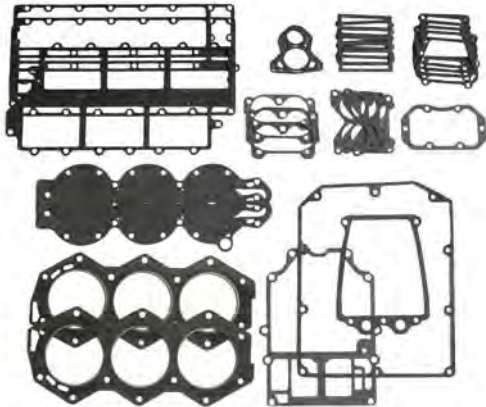
OEM: 5000400



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

No. 39090

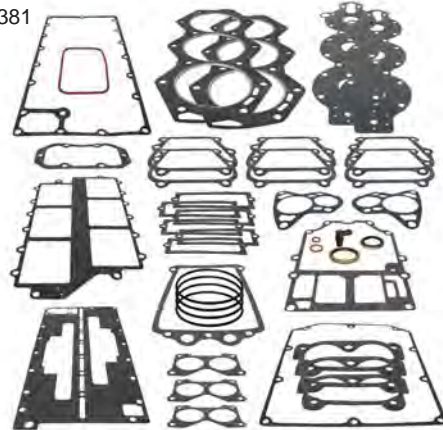
OEM: 0391988



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

No. 39430

OEM: 0434381



V6 Crossflow
175, 235 HP (1980-1991)

No. 39352

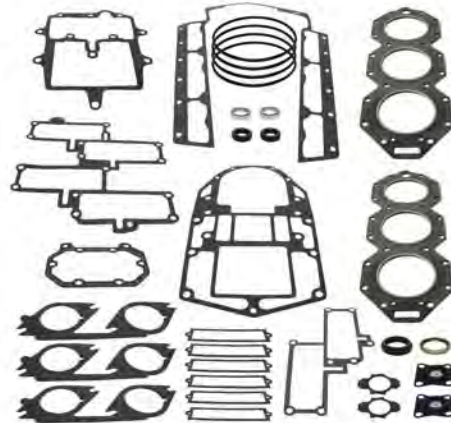
OEM: 0437155



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

No. 39930

OEM: 0398172



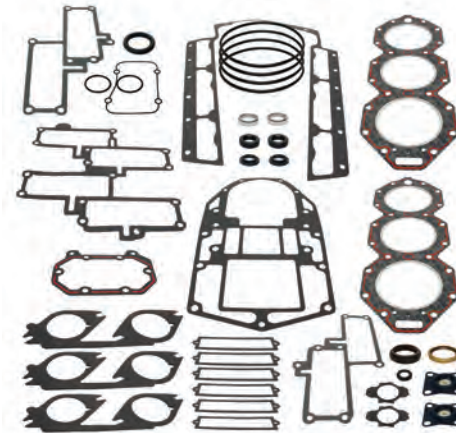
90° V6 Loopcharged, Carb., 200, 225 HP
(1986-1987)

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POWERHEAD GASKET KITS CONT.

No. 39510

OEM: 0437725



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

POWERHEAD GASKET KITS APPLICATIONS

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

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POWERHEAD MOUNTING GASKETS

No. 35190

OEM: 0324717



9.9, 15 HP (1972-1985)

No. 33080

OEM: 0325721



9.9, 15 HP (1986-Up)

No. 33190

OEM: 0319348



28, 33, 40 HP

No. 34350

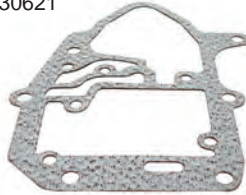
OEM: 0319710



25, 35 HP (1976-1978)

No. 33710

OEM: 0330621



25, 35 HP (1979-Up)

No. 35340

OEM: 0351018



2-Cyl., Loopcharged

No. 35430

OEM: 0329828



3-Cyl., 60, 70 HP

No. 33410

OEM: 0313763



Thin Gasket

3-Cyl.

No. 34550

OEM: 0328618

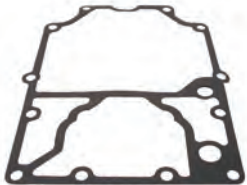


Thick Gasket

3-Cyl.

No. 34880

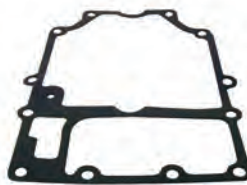
OEM: 0318373



90° V4 Crossflow (1973-1977)

No. 33640

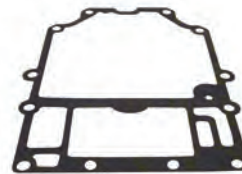
OEM: 0342513



90° V4 Crossflow (1978-1997)

No. 34460

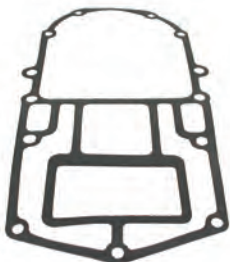
OEM: 0323214



90° V6 Crossflow

No. 35370

OEM: 0328590



90° V4 Loopcharged

No. 35790

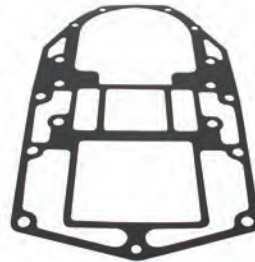
OEM: 0335503



90° V6 Loopcharged

No. 35780

OEM: 0333879



90° V6 Loopcharged





















No. 35460

OEM: 0329975



90° V8 Loopcharged

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POWERHEAD MOUNTING GASKETS CONT...			CYL. HOSES
<p>No. 36500 OEM: 0343853</p>  <p>60° V4 (1997)</p>	<p>No. 36510 OEM: 0344386</p>  <p>60° V4 (1998-Up)</p>	<p>No. 36560 OEM: 0335419</p>  <p>60° V6</p>	<p>No. 47250 STBD Hose w/Clamps OEM: 0340975</p>  <p>No. 47260 Port Hose w/Clamps OEM: 0340976</p>  <p>V4 Crossflow</p>
INTERMEDIATE HOUSING EXHAUST GASKETS			
<p>No. 35360 OEM: 0351019</p>  <p>2-Cyl., Loopcharged</p>	<p>No. 35420 EXHAUST RELIEF COVER OEM: 0329826</p>  <p>2-Cyl., Loopcharged Exhaust Relief Cover</p>	<p>No. 34600 OEM: 0331016</p>  <p>3-Cyl. (1972-1985)</p>	<p>No. 35810 OEM: 0336308</p>  <p>3-Cyl., 60, 70 HP (1986-UP)</p>
<p>No. 34500 OEM: 0324516</p>  <p>90° V6 Crossflow</p>	<p>No. 33670 OEM: 0323292</p>  <p>90° V6 Crossflow</p>	<p>No. 35680 OEM: 0331585</p>  <p>90° V6 Crossflow</p>	<p>No. 34470 OEM: 0323222</p>  <p>90° V4, V6 Crossflow</p>
<p>No. 34490 OEM: 0323459</p>  <p>90° V4 Crossflow</p>	<p>No. 35770 OEM: 0343809</p>  <p>90° V6 Loopcharged</p>	<p>No. 35760 OEM: 0333564</p>  <p>90° V6 Loopcharged</p>	
SCREW / SEAL	SEALS - EXHAUST HOUSING		
<p>No. 22301 OEM: 0317763</p>  <p>For Crankcase Cover</p>	<p>No. 85830 OEM: 0320936</p> 	<p>No. 85840 OEM: 0320961</p> 	<p>No. 86210 OEM: 0324937</p> 









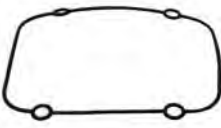









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POWERHEAD EXHAUST GASKETS

<p>No. 33170 OEM: 0313065</p>  <p>5,5,5,6 HP</p>	<p>No. 35200 OEM: 0325211</p>  <p>5, 5.5, 6 HP</p>	<p>No. 34320 OEM: 0318925</p>  <p>9.9, 15 HP</p>	<p>No. 33690 OEM: 0324323</p>  <p>25, 35 HP</p>
<p>No. 35330 OEM: 0326264</p>  <p>2-Cyl. Crossflow</p>	<p>No. 33230 OEM: 0304762</p>  <p>2-Cyl. Crossflow</p>	<p>No. 34800 OEM: 0315868</p>  <p>2-Cyl. Loopcharged</p>	<p>No. 34850 OEM: 0315869</p>  <p>2-Cyl. Loopcharged</p>
<p>No. 34610 OEM: 0331916</p>  <p>3-Cyl.</p>	<p>No. 34620 OEM: 0331917</p>  <p>3-Cyl.</p>	<p>No. 35450 OEM: 0343863</p>  <p>3-Cyl., 60-70 HP</p>	<p>No. 34300 OEM: 0317955</p>  <p>90° V4 Crossflow</p>
<p>No. 34290 OEM: 0317914</p>  <p>90° V4 Crossflow</p>	<p>No. 33240 OEM: 0305176</p>  <p>90° V4 Crossflow</p>	<p>No. 33680 OEM: 0323469</p>  <p>90° V4 Crossflow</p>	<p>No. 33510 OEM: 0318156</p>  <p>90° V4 Crossflow</p>
<p>No. 34650 OEM: 0393561</p>  <p>90° V6 Crossflow, 235 HP</p>	<p>No. 33620 OEM: 0321435</p>  <p>90° V6 Crossflow</p>	<p>No. 33590 OEM: 0321182</p>  <p>90° V6 Crossflow</p>	<p>No. 32560 OEM: 0336430</p>  <p>90° V6 Crossflow</p>

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POWERHEAD WATER PASSAGE COVER GASKETS

<p>No. 34580 OEM: 0329920</p>  <p>9.9, 15 HP</p>	<p>No. 33560 OEM: 0319665</p>  <p>25, 35 HP</p>	<p>No. 33700 OEM: 0327674</p>  <p>25, 35 HP</p>	<p>No. 34780 OEM: 0315538</p>  <p>50, 55 HP</p>	
<p>No. 36640 OEM: 0318962</p>  <p>2-Cyl. Loopcharged</p>	<p>No. 33530 OEM: 0318335</p>  <p>V4</p>	<p>No. 34310 OEM: 0318609</p>  <p>3-Cyl.</p>	<p>No. 34370 OEM: 0321028</p>  <p>V6</p>	
<p>No. 86214 REGULATOR MOUNT GASKET OEM: 03010036</p>  <p>60° V4/V6 (1997-2000)</p>		<p>No. 36540 REGULATOR MOUNT GASKET OEM: 0342291</p>  <p>60° V4/V6</p>		<p>No. 35470 REGULATOR MOUNT GASKET OEM: 0344472</p>  <p>90° V4/V6</p>
<p>No. 34870 OEM: 0317951</p>  <p>V4/V6</p>	<p>No. 34450 OEM: 0322858</p>  <p>V4/V6</p>		<p>No. 35760 OEM: 0333564</p>  <p>90° V6 Loopcharged</p>	
<h2>POWERHEAD TRANSFER PORT GASKETS - CROSSFLOW ENGINES</h2>				
<p>No. 34990 OEM: 0319332</p>  <p>9.9, 15 HP</p>	<p>No. 34340 OEM: 0319661</p>  <p>25, 35 HP</p>	<p>No. 36630 OEM: 0304784</p>  <p>2-Cyl.</p>	<p>No. 33280 OEM: 0307133</p>  <p>90° V4</p>	

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CARBURETOR TO INTAKE MANIFOLD GASKETS

No. 33740

CARB. TO MANIFOLD
GASKET
OEM: 0325092



No. 34980

CARB. TO MANIFOLD
GASKET
OEM: 0318932



No. 35750

THROTTLE BODY
TO MANIFOLD
OEM: 0332319



No. 33460

CARB. TO MANIFOLD
GASKET
OEM: 0315052



V4

No. 34540

CARB. TO MANIFOLD
GASKET
OEM: 0327707



V4/V6

No. 34530

CARB. TO MANIFOLD GASKET
OEM: 0326926



3-Cyl.

No. 34860

CARB. TO MANIFOLD GASKET
OEM: 0317305



3-Cyl.

No. 36620

THROTTLE BODY GASKET
OEM: 0344526



60° EFI

No. 86211

PORT INTAKE TO CARB.
GASKET
OEM: 0335818



60° V4

No. 86212

STBD. INTAKE TO CARB.
GASKET
OEM: 0335819



60° V4

No. 86650

PORT INTAKE TO CARB.
GASKET
OEM: 0335403



60° V6

No. 86651















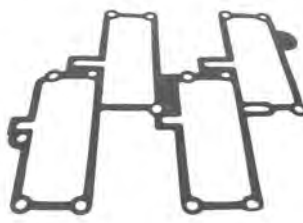





STBD. INTAKE TO CARB.
GASKET
OEM: 0335404



60° V6

Johnson / Evinrude

INTAKE MANIFOLD GASKETS / REED PLATE GASKETS

<p>No. 34970 REED PLATE GASKET OEM: 0318924</p>  <p>9.9, 15 HP</p>	<p>No. 35320 REED PLATE GASKET OEM: 0325260</p>  <p>9.9, 15 HP</p>	<p>No. 34390 REED PLATE GASKET OEM: 0321479</p>  <p>25, 35 HP</p>	<p>No. 33090 REED PLATE GASKET OEM: 0326260</p>  <p>25, 35 HP</p>
<p>No. 36660 REEDPLATE GASKET OEM: 0311364</p> 	<p>No. 36670 REEDPLATE GASKET OEM: 0311365</p> 	<p>No. 34790 INTAKE MANIFOLD GASKET OEM: 0315578</p>  <p>2-Cyl. Loopcharged</p>	<p>No. 35800 INTAKE MANIFOLD GASKET OEM: 0335633</p>  <p>2-Cyl. Loopcharged</p>
<p>No. 35400 REED BOX GASKET OEM: 0328626</p>  <p>90° V4/V6 Loopcharged</p>	<p>No. 35740 REED BOX GASKET OEM: 0332266</p>  <p>90° V4/V6 Loopcharged</p>	<p>No. 33660 REED BOX GASKET OEM: 0321907</p>  <p>90° V4/V6 Crossflow</p>	<p>No. 36650 REED PLATE OEM: 0317254</p>  <p>2-Cyl. Crossflow</p>
<p>No. 33180 INTAKE MANIFOLD GASKET OEM: 0319174</p>  <p>90° V4 Crossflow</p>	<p>No. 33610 INTAKE MANIFOLD GASKET OEM: 0329718</p>  <p>90° V6 Crossflow</p>	<p>No. 35390 INTAKE MANIFOLD GASKET OEM: 0328622</p>  <p>90° V4/V6 Loopcharged</p>	<p>No. 35540 INTAKE MANIFOLD GASKET OEM: 0331532</p>  <p>90° V6 Loopcharged</p>
<p>No. 36520 PORT INTAKE MANIFOLD GASKET OEM: 0336388</p>  <p>60° V4</p>	<p>No. 36530 STARBOARD INTAKE MANIFOLD GASKET OEM: 0336389</p>  <p>60° V4</p>	<p>No. 36570 PORT INTAKE MANIFOLD GASKET OEM: 0336226</p>  <p>60° V6</p>	<p>No. 36580 STARBOARD INTAKE MANIFOLD GASKET OEM: 0336227</p>  <p>60° V6</p>

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AIR SILENCER GASKETS

No. 34480

AIR SILENCER GASKET
OEM: 0323338



25, 35 HP

No. 36550

AIR SILENCER GASKET
OEM: 0336821



No. 37800

AIR SILENCER GASKET
OEM: 0338882



No. 33750

AIR SILENCER GASKET
OEM: 0386573, 0319771



No. 35180

AIR SILENCER GASKET
OEM: 0321497



No. 34420

AIR SILENCER GASKET
OEM: 0333008



3-Cyl.

No. 34640

AIR SILENCER GASKET
OEM: 0314115



70, 75 HP

No. 35380

AIR SILENCER GASKET
OEM: 0328604



No. 35490

AIR SILENCER GASKET
OEM: 0330909



No. 35000

AIR SILENCER GASKET
OEM: 0320679



No. 35480

AIR SILENCER GASKET
OEM: 0330698



No. 34430

AIR SILENCER GASKET
OEM: 0321794



3-Cyl.

No. 33630

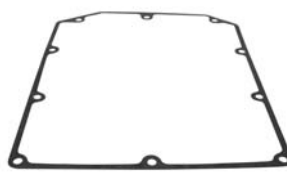
AIR SILENCER GASKET
OEM: 0321722



V4

No. 34380

AIR SILENCER GASKET
OEM: 0321183



V6

No. 34740

AIR SILENCER GASKET
OEM: 0314322



70, 75 HP

No. 35350

COVER TO BASE GASKET
OEM: 0327236



V6

No. 35730

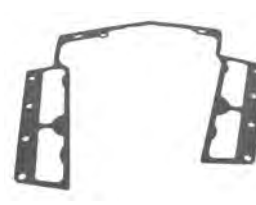
COVER TO BASE GASKET
OEM: 0331598



V6

No. 35500

COVER TO BASE GASKET
OEM: 0331101



V4

Section 15

Johnson / Evinrude Oil Seals Shaft & Bore Size, O-Ring Size Chart

Oil Seals Shaft & Bore Size 164
O-Ring Size Chart 165

Johnson / Evinrude

OIL SEALS SHAFT & BORE SIZE

GLM	OEM	Shaft Size	Bore Size	GLM	OEM	Shaft Size	Bore Size
Table By OEM Numbers							
86530	0302564	0.7813	1.3750	86200	0321928	0.6250	1.3750
86360	0303345	0.5625	1.0000	86510	0324639	0.4375	0.9375
86380	0305987	1.0000	1.3750	86750	0326716	0.7500	1.3750
86370	0309989	1.3750	2.0000	86450	0327031	0.4375	0.8750
85110	0310599	1.0000	1.5000	86240	0329922	0.8750	1.3750
86040	0310649	2.5000	3.0000	86250	0329923	0.8750	1.3750
86390	0313282	0.5540	1.0625	86030	0330137	1.1250	1.6250
86740	0313283	0.8125	1.3125	86270	0330327	0.6250	1.1250
86410	0313284	0.6250	1.1250	86790	0331103	1.1250	1.6250
86050	0313353	1.9375	2.4375	86460	0332205	0.7500	1.1250
85010	0313392	1.1875	1.8750	86520	0332261	0.6250	1.3750
86012	0314281	1.2500	1.6875	86470	0332942	0.6250	2.0625
86400	0314167	0.4219	0.9375	86440	0339620	1.6250	2.1250
86120	0318972	0.5000	0.8750	86011	0341280	0.8750	1.3750
85130	0320862	1.1875	1.6875	86013	0342786	0.7500	1.1875
85120	0321453	0.8750	1.2500	86590	0908855	0.6250	1.0000
86150	0321459	0.6250	1.1250	86070	0911019	1.0000	2.5000
86160	0321466	0.7500	1.1250	86530	0911685	2.0000	2.5000
86060	0321467	1.0000	1.3750	86560	0911785	1.3750	2.1875
86170	0321480	0.5000	1.2500	86010	0981195	1.5000	2.1250
86180	0321481	0.6875	1.2500	86080	0981196	1.7500	2.5000
86420	0321786	0.6250	1.1250	86090	0981268	1.6250	2.5000
86190	0321787	0.6250	1.1250	86560	3852548	1.3750	2.1875
86430	0321788	0.5000	1.0000	86610	3853655	0.5000	0.9062
86760	0321831	0.7500	1.2500				
86770	0321895	1.6250	1.9219				
Table By Shaft Size							
86400	0314167	0.4219	0.9375	86011	0341280	0.8750	1.3750
86450	0327031	0.4375	0.8750	86240	0329922	0.8750	1.3750
86510	0324639	0.4375	0.9375	86250	0329923	0.8750	1.3750
86120	0318972	0.5000	0.8750	85110	0310599	1.0000	1.5000
86170	0321480	0.5000	1.2500	86060	0321467	1.0000	1.3750
86430	0321788	0.5000	1.0000	86070	0911019	1.0000	2.5000
86610	3853655	0.5000	0.9062	86380	0305987	1.0000	1.3750
86390	0313282	0.5540	1.0625	86030	0330137	1.1250	1.6250
86360	0303345	0.5625	1.0000	86790	0331103	1.1250	1.6250
86410	0313284	0.6250	1.1250	85010	0313392	1.1875	1.8750
86150	0321459	0.6250	1.1250	85130	0320862	1.1875	1.6875
86190	0321787	0.6250	1.1250	86012	0314281	1.2500	1.6875
86200	0321928	0.6250	1.3750	86370	0309989	1.3750	2.0000
86270	0330327	0.6250	1.1250	86560	0911785	1.3750	2.1875
86420	0321786	0.6250	1.1250	86560	3852548	1.3750	2.1875
86520	0332261	0.6250	1.3750	86010	0981195	1.5000	2.1250
86590	0908855	0.6250	1.0000	86090	0981268	1.6250	2.5000
86180	0321481	0.6875	1.2500	86440	0339620	1.6250	2.1250
86160	0321466	0.7500	1.1250	86470	0332942	1.6250	2.0625
86460	0332205	0.7500	1.1250	86770	0321895	1.6250	1.9219
86013	0342786	0.7500	1.1875	86080	0981196	1.7500	2.5000
86750	0326716	0.7500	1.3750	86050	0313353	1.9375	2.4375
86760	0321831	0.7500	1.2500	86530	0911685	2.0000	2.5000
86530	0302564	0.7813	1.3750	86040	0310649	2.5000	3.0000
86740	0313283	0.8125	1.3125				
85120	0321453	0.8750	1.2500				



Johnson / Evinrude

O-RING SIZE CHART

GLM	OEM	I.D.	O.D.	W.	GLM	OEM	I.D.	O.D.	W.	GLM	OEM	I.D.	O.D.	W.
Table By OEM Numbers														
80120	0202893	3/8	1/2	1/16	81230	0309731	1 3/16	1 3/8	3/32	81140	0329380	5/8	13/16	3/32
81070	0301824	7/32	13/32	3/32	82250	0310327	1 7/8	2 1/8	1/8	81100	0329381	3/8	9/16	3/32
45230	0301877	31/128	73/128	21/128	82390	0310414	3 5/8	3 7/8	1/8	80100	0332583	1/4	3/8	1/16
81170	0301967	13/16	1	3/32	82100	0310584	3/4	1	1/8	80100	0332584	1/4	3/8	1/16
82260	0302337	2	2 1/4	1/8	81160	0310585	3/4	15/16	3/32	81080	0333572	1/4	7/16	3/32
82170	0302493	1 3/16	1 7/16	1/8	81160	0310967	3/4	15/16	3/32	81540	0335523	3 3/4	3 15/16	3/32
81260	0302537	1 3/8	1 9/16	3/32	80180	0311338	3/4	7/8	1/16	81450	0338518	2 9/16	2 3/4	3/32
82140	0302540	1	1 1/4	1/8	82480	0313175	4 3/4	5	1/8	81300	0338522	1 5/8	1 13/16	3/32
82240	0302588	1 3/4	2	1/8	81310	0313340	1 11/16	1 7/8	3/32	81120	0339543	1/2	11/16	3/32
81100	0303067	3/8	9/16	3/32	82370	0313446	3 3/8	3 5/8	1/8	82360	0553126	3 1/4	3 1/2	1/8
80110	0303191	5/16	7/16	1/16	81340	0313754	1 7/8	2 1/16	3/32	81220	0554545	1 1/8	1 5/16	3/32
81110	0303347	7/16	5/8	3/32	80220	0314491	1	1 1/8	1/16	81550	0908194	4	4 3/16	3/32
82150	0303360	1 1/16	1 5/16	1/8	81380	0314728	2 1/8	2 5/16	3/32	81440	0908383	2 1/2	2 11/16	3/32
80140	0304174	1/2	5/8	1/16	80100	0317178	1/4	3/8	1/16	81140	0909047	5/8	13/16	3/32
82400	0305123	3 3/4	4	1/8	45200	0318372	8 mm	16 mm	4 mm	41120	0909048	1/2	11/16	3/32
82080	0305146	5/8	7/8	1/8	83250	0318717	1 1/2	1 7/8	3/16	42140	0909139	1	1 1/4	1/8
82030	0305242	5/16	9/16	1/8	83200	0319085	1 1/8	1 1/2	3/16	80230	0909140	1 1/16	1 3/16	1/16
82230	0305270	1 5/8	1 7/8	1/8	81330	0319662	1 3/4	1 15/16	3/32	81280	0909316	1 1/2	1 11/16	3/32
80100	0305739	1/4	3/8	1/16	82130	0320140	15/16	1 3/16	1/8	81090	0909747	5/16	1/2	3/32
82310	0307082	2 5/8	2 7/8	1/8	82320	0320303	2 3/4	3	1/8	82520	0910238	5 1/4	5 1/2	1/8
80130	0307450	7/16	9/16	1/16	80080	0321117	3/16	5/16	1/16	82250	0910582	1 7/8	2 1/8	1/8
80090	0307853	7/32	11/32	1/16	81250	0322501	1 5/16	1 1/2	3/32	80100	0911311	1/4	3/8	1/16
82350	0308621	3 1/8	3 3/8	1/8	80090	0322598	7/32	11/32	1/16	82380	0911686	3 1/2	3 3/4	1/8
81290	0308458	1 9/16	1 3/4	3/32	81140	0326649	5/8	13/16	3/32	82430	0911700	4 1/8	4 3/8	1/8
81190	0308624	15/16	1 1/8	3/32	82460	0326741	4 1/2	4 3/4	1/8	81210	0911718	1 1/16	1 1/4	3/32
81270	0308626	1 7/16	1 5/8	3/32	82440	0326849	4 1/4	4 1/2	1/8	81230	0911871	1 3/16	1 3/8	3/32
82280	0308627	2 1/4	2 1/2	1/8	45230	0326956	31/128	73/128	21/128	81180	3852565	7/8	1 1/16	3/32
81400	0308876	2 1/4	2 7/16	3/32	81250	0331188	1 5/16	1 1/2	3/32					
Table By Nominal Size														
80080	0321117	3/16	5/16	1/16	81170	0301967	13/16	1	3/32	82140	0302540	1	1 1/4	1/8
80090	0307853	7/32	11/32	1/16	81180	3852565	7/8	1 1/16	3/32	82150	0303360	1 1/16	1 5/16	1/8
80090	0322598	7/32	11/32	1/16	81190	0308624	15/16	1 1/8	3/32	82170	0302493	1 3/16	1 7/16	1/8
80100	0305739	1/4	3/8	1/16	81210	0911718	1 1/16	1 1/4	3/32	82230	0305270	1 5/8	1 7/8	1/8
80100	0317178	1/4	3/8	1/16	81220	0554545	1 1/8	1 5/16	3/32	82240	0302588	1 3/4	2	1/8
80100	0332583	1/4	3/8	1/16	81230	0309731	1 3/16	1 3/8	3/32	82250	0310327	1 7/8	2 1/8	1/8
80100	0332584	1/4	3/8	1/16	81230	0911871	1 3/16	1 3/8	3/32	82250	0910582	1 7/8	2 1/8	1/8
80100	0911311	1/4	3/8	1/16	81250	0322501	1 5/16	1 1/2	3/32	82260	0302337	2	2 1/4	1/8
80110	0303191	5/16	7/16	1/16	81260	0302537	1 3/8	1 9/16	3/32	82280	0308627	2 1/4	2 1/2	1/8
80120	0202893	3/8	1/2	1/16	81270	0308626	1 7/16	1 5/8	3/32	82310	0307082	2 5/8	2 7/8	1/8
80130	0307450	7/16	9/16	1/16	81280	0909316	1 1/2	1 11/16	3/32	82320	0320303	2 3/4	3	1/8
80140	0304174	1/2	5/8	1/16	81290	0308458	1 9/16	1 3/4	3/32	82350	0308621	3 1/8	3 3/8	1/8
80180	0311338	3/4	7/8	1/16	81300	0338522	1 5/8	1 13/16	3/32	82360	0553126	3 1/4	3 1/2	1/8
80220	0314491	1	1 1/8	1/16	81310	0313340	1 11/16	1 7/8	3/32	82370	0313446	3 3/8	3 5/8	1/8
80230	0909140	1 1/16	1 3/16	1/16	81330	0319662	1 3/4	1 15/16	3/32	82380	0911686	3 1/2	3 3/4	1/8
41120	0909048	1/2	11/16	3/32	81340	0313754	1 7/8	2 1/16	3/32	82390	0310414	3 5/8	3 7/8	1/8
81070	0301824	7/32	13/32	3/32	81380	0314728	2 1/8	2 5/16	3/32	82400	0305123	3 3/4	4	1/8
81080	0333572	1/4	7/16	3/32	81400	0308876	2 1/4	2 7/16	3/32	82430	0911700	4 1/8	4 3/8	1/8
81090	0909747	5/16	1/2	3/32	81440	0908383	2 1/2	2 11/16	3/32	82440	0326849	4 1/4	4 1/2	1/8
81100	0303067	3/8	9/16	3/32	81450	0338518	2 9/16	2 3/4	3/32	82460	0326741	4 1/2	4 3/4	1/8
81100	0329381	3/8	9/16	3/32	81540	0335523	3 3/4	3 15/16	3/32	82480	0313175	4 3/4	5	1/8
81110	0303347	7/16	5/8	3/32	81550	0908194	4	4 3/16	3/32	82520	0910238	5 1/4	5 1/2	1/8
81120	0339543	1/2	11/16	3/32	42140	0909139	1	1 1/4	1/8	45230	0301877	31/128	73/128	21/128
81140	0326649	5/8	13/16	3/32	82030	0305242	5/16	9/16	1/8	45230	0326956	31/128	73/128	21/128
81140	0329380	5/8	13/16	3/32	82080	0305146	5/8	7/8	1/8	83200	0319085	1 1/8	1 1/2	3/16
81140	0909047	5/8	13/16	3/32	82100	0310584	3/4	1	1/8	83250	0318717	1 1/2	1 7/8	3/16
81160	0310585	3/4	15/16	3/32	82130	0320140	15/16	1 3/16	1/8	45200	0318372	8 mm	16 mm	4 mm
81160	0310967	3/4	15/16	3/32	81250	0331188	1 15/16	1 1/2	3/32					

* Quad Ring

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, rusting, 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 products 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 "Returned Goods Authorization #"). Packages or boxes without your assigned RGA# on the outside and on all related submitted documents will be refused. No returns will be accepted without a RGA#.
- 2) All returns must include a copy of the completed warranty application. (Application is available at www.glmmarine.com, on 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 dealer.
 - 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 USA
RGA#**

Superior Marine Manifolds

Conversion Kits

100% Complete



Gaskets & Hardware Included

MerCruiser V6

MerCruiser V8

OMC GM V6

OMC Ford V8



Wet Joint Manifold Kits

100% Complete



Gaskets & Hardware Included

MerCruiser 4-Cyl.
MerCruiser GM V6
MerCruiser GM V8
OMC / Volvo 4-Cyl.
OMC / Volvo GM V6
OMC / Volvo GM V8
OMC / Volvo Ford V8
Barr / Indmarr Ford V8

Dry Joint Alternative

Manifold-Elbow Sets



Gaskets & Hardware Included

Replaces your whole dry joint exhaust system!

MerCruiser V6

MerCruiser V8

MerCruiser V8



Exhaust Manifolds

4-Cyl. Log Style



Gaskets Included

MerCruiser 120
MerCruiser 140
MerCruiser 3.0 L

MerCruiser 3.0 LX
OMC 3.0 / 3.0 H.O.
Volvo 3.0 GS

Exhaust Elbows

Standard



MerCruiser 3 Inch
MerCruiser 4 Inch
MerCruiser 7° Dry
MerCruiser 14° Dry
OMC 3 Inch
Volvo 3 Inch V6
Volvo 3 Inch V8 S.B.
OMC / Volvo (Carb.)
OMC / Volvo (EFI)
OMC 3.0 / 3.0 H.O.
Volvo 3.0 GS
Barr GM & Ford V8

Exhaust Manifolds

V6 thru V8 B.B.



Gaskets Included

MerCruiser Wet
MerCruiser Dry
Volvo Penta
OMC

Dry Joint Manifold Kits

100% Complete



Gaskets & Hardware Included

7° Elbows:
MerCruiser GM V6
MerCruiser GM V8 S.B.

14° Elbows:
MerCruiser GM V6
MerCruiser GM V8 S.B.

Exhaust Elbows

Hi-Rise



Volvo Penta V6
Volvo Penta V8 S.B.
OMC V6
OMC V8 S.B.
OMC / Volvo Penta
V8 B.B.
OMC / Volvo Penta
V8 Ford

460 Adapter Kits

Ford Engine to GM Manifolds



MerCruiser V8 B.B.
OMC V8 B.B.
Volvo Penta V8 B.B.



Spacer Kits

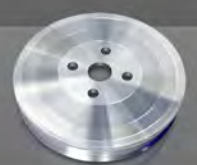
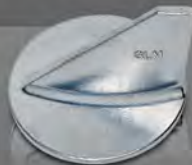
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