

Cobra

LOWER GEAR HOUSING COMPONENTS (1986-1993)

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
28800	1	439972	Gearcase Assembly	22491	50	160084	Detent Ball
21610	2	387817	Pinion Bearing	11055	51	915995	Spring
21885	3	337778	Screen	27730	52	982422	Cradle
22363	4	337061	Screw	27710	53	322941	Shaft
21679	5	-	Washer	27740	54	322938	Lever
27720	6	915954	Detent	21646	55	327669	Thrust Washer
27750	7	986838	Cover & Seal Assembly	16340	56	389042	Thrust Bearing
22390	8	912157	Wiper	22625	57	914716	Clutch Dog
45200	9	318372	O-ring	21135	58	313448	Cross Pin
22375	10	304027	Screw	11052	59	324369	Spring
33960	11	911878	Gasket	22414	60	395209	Prop Shaft 1-3/16 (1986-90)
86620	12	911705	Seal	22416	60	436888	Prop Shaft (All 4-CYL. 1987-90)
12960	13	911706	Tube	22417	60	435022	Prop Shaft 1-1/4 (1991-93)
12961	14	911715	Guide	21651	61	336565	Thrust Washer
27760	15	915720	Water Passage Housing	16300	62	382408	Thrust Bearing
22404	16	911709	Upper Drive Shaft	21642	63	314731	Thrust Washer
21180	17	121731	Nut	82400	64	305123	O-ring
21490	18	305981	Washer	82370	64	313446	O-ring 4-CYL.
33970	19	915719	Gasket	11406	65	5000074	Bearing Carrier (1986-90)
83250	20	318717	O-ring	11408	65	5004257	Bearing Carrier (1991-93)
22362	21	317624	Screw	22870	66	382407	Bearing
27770	22	984462	Bearing Housing	11410	67	387247	Bearing (1986-90)
81380	23	314728	O-ring	22950	67	434467	Bearing (1991-93)
23590	24	323362	Shim .003	85130	68	320862	Oil Seal (1986-90) 2-pieces
23580	24	323361	Shim .004	86810	68	334950	Oil Seal (1991-93) 2-pieces
23510	24	314745	Shim .005	12737	69	431708	Anode
21645	25	327656	Thrust Washer	22320	70	908158	Screw
16330	26	387656	Thrust Bearing	27850	71	333957	Tab
12962	27	911710	Plug	22373	72	341541	Screw
22406	28	911693	Lower Drive Shaft	22221	73	126870	Thrust Washer
11190	29	314730	Nut	22190	74	320570	Spacer
22623	30	987670	P/Forward Gear Set	21033	75	914736	Shift Rod
22624	31	915273	Reverse Gear (1986-93)	21245	76	914743	Nut
12774	32	3853818	Anode	26440	77	914723	Rod End
22365	33	914535	Screw	22388	78	308825	Screw
21674	34	330265	Washer	21032	79	986658	Shift Rod Assembly
22366	35	328096	Screw	22471	80	911713	Stud
22367	36	330263	Screw	22472	81	911714	Stud
12776	37	436745	Anode	23112	82	912392	Trim Tab
22368	38	313715	Screw	21678	83	306358	Washer
22369	39	912127	Screw	22300	84	316563	Screw & Seal
21761	40	328701	Lockwasher	86640	85	332583	Seal
21731	41	318544	Draining Screw	82370	86	313446	O-ring
31171	42	311598	Gasket	87655	87	985612	Seal Kit - 4-Cyl.
22371	43	331999	Screw	87656	88	439967	Seal Kit - V6/V8 & 4-Cyl. (1990 & Up)
22185	44	398042	Nut & Keeper				
22142	45	306394	Cotter Pin				
27700	46	389455	Housing & Bearing Assembly				
22910	47	389039	Bearing				
21138	48	331880	Pin				
21137	49	328825	Pin				

Cobra

LOWER GEAR HOUSING GEARS

HEAVY DUTY

Gear Set GLM #22666

Includes #21651 thrust washer**



When all three gears need replacing in your OMC Cobra Sterndrive the installation of the GLM #22666 heavy-duty gear set is highly recommended. The heavy-duty gears can be used with all four-cylinder sterndrives* from 1990-1993 and all V6 and V8 OMC Cobra sterndrives from 1986-1993. It is recommended that a new clutch GLM #22625 (this clutch is not included with the gear set) be installed with the heavy-duty gears. The gears can be used with the standard 1-3/16" diameter prop shaft (1986-1990) or the heavy-duty 1-1/4" diameter prop shaft (1991-1993).

GLM #22666 heavy-duty gears fit these OMC Cobra Sterndrive units:

3.0L/181CI	4-Cyl.	Chev.	1990-93
4.3L/262CI	V6	Chev.	1986-93
5.0L/302CI	V8	Ford	1986-93
5.0L/305CI	V8	Chev.	1986-93
5.7L/350CI	V8	Chev.	1986-93
5.8L/351CI	V8	Ford	1986-93

IMPORTANT NOTE:

The new heavy-duty GLM #22666 gears will not interchange with the standard Cobra gears. For individual Cobra gear replacement, you must use the standard duty GLM #22623 pinion and forward gears or the GLM #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.

*Except 1990 2.3L

**For model year 1991 OMC increased the prop shaft diameter at the carrier needle bearing (not the prop splines) from 1-3/16 to 1-1/4 inches. 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.



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LOWER GEAR HOUSING GEARS

STANDARD DUTY

Replacement Gear Sets

These gearsets are an exact copy of the gears used in the 1986-1993 V6 and V8 OMC Cobra Sterndrives. They also replace the gears used in the 1990-1993 four-cylinder* OMC Cobra sterndrives. The standard-duty replacement gears are stronger than the original and can be used with the standard 1 3/16" diameter prop shaft (1986 -1990) or the heavy-duty 1 -1/4" diam



COMPLETE GEAR SET - Forward/Pinion/Reverse - 14/26 teeth - Comes with the GLM #22625 clutch	GLM #22622	OEM #986980
FORWARD & PINION SET - May be used with OMC reverse gear - 14/26 teeth	GLM #22623	OEM #987670
REVERSE GEAR - May be used with OMC forward and pinion gears - 26 teeth - Includes thrust washer #21651**	GLM #22624	OEM #915723
CLUTCH	GLM #22625	OEM #915272

*Except 1990 2.3L

**For model year 1991 OMC increased the prop shaft diameter at the carrier needle bearing (not the prop splines) from 1-3/16 to 1-1/4 inches. 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.

It is recommended that the above standard duty replacement gears be used only with the four-cylinder and V6 powered sterndrives listed below:

3.0L/181CI	4-Cyl. Chev.	1990-93
4.3L/262CI	V6 Chev.	1986-93

GLM recommends the heavy-duty gearset #22666 for all V8 powered sterndrives.

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LOWER GEAR HOUSING GEARS

4-CYLINDER GEARS

These gearsets are an exact copy of the gears used in the 4-Cylinder 3.0L from 1986-1989 and 1987-1990 2.3L.



COMPLETE GEAR SET - Forward/Pinion/Reverse - 13/26 teeth - Comes with the GLM #22633 clutch	GLM #22630	OEM #986979
FORWARD & PINION SET - May be used with OMC reverse gear - 13/26 teeth	GLM #22631	OEM #985050
REVERSE GEAR - May be used with OMC forward and pinion gears - 26 teeth	GLM #22632	OEM #345992
CLUTCH	GLM #22633	OEM #912607

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GEAR SETS & CLUTCH DOGS		
Heavy Duty Gears		Clutch for Heavy Duty Gears
No. 22666 COMPLETE GEAR SET OEM: N/A 		No. 22625 CLUTCH OEM: 915272 
For Large Gearcase - 3.0L (1990-1993), V6 & V8 (1986-1993)		
No. 22622 (22623+22624+22625) COMPLETE GEAR SET & CLUTCH OEM: 986980 	No. 22623 PINION & FORWARD GEAR SET OEM: 987670 14:26 Ratio 	No.22624 REVERSE GEAR OEM: 915273 
		No. 22625 CLUTCH OEM: 915272 
For Small Gearcase - 2.3L (1987-1990), 3.0L (1986-1989)		
No. 22630 (22631+22632+22633) COMPLETE GEAR SET & CLUTCH OEM: 986979 	No. 22631 PINION & FORWARD GEAR SET OEM: 985050 13:26 Ratio 	No. 22632 REVERSE GEAR OEM: 345992 
		No. 22633 CLUTCH OEM: 912607 

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PROP SHAFT PARTS - 4-CYL 2.3L (1987-1990), 4-CYL 3.0L (1986-1989)

No. 86030

PROP SHAFT
SEAL (2)
OEM: 330137



No. 22860

PROP SHAFT
BEARING
OEM: 379504



No. 22870

REVERSE GEAR
BEARING
OEM: 382407



No. 21642

THRUST WASHER -
REVERSE GEAR
OEM: 314731



No. 16300

THRUST BEARING -
REVERSE GEAR
OEM: 382408



No. 82370

O-RING -
BEARING CARRIER
OEM: 313446



No. 22416

PROP SHAFT
OEM: 436888



PROP SHAFT PARTS - 4-CYL 3.0L (1990), V6 & V8 (1986-1990)

No. 85130

PROP SHAFT
SEAL (2)
OEM: 320862



No. 11410

PROP SHAFT
BEARING
OEM: 387247



No. 22870

REVERSE GEAR
BEARING
OEM: 382407



No. 21642

THRUST WASHER -
REVERSE GEAR
OEM: 314731



No. 16300

THRUST BEARING -
REVERSE GEAR
OEM: 382408



No. 82400

O-RING -
BEARING CARRIER
OEM: 305123



No. 22414

PROP SHAFT 1-3/16
(1986-1990)
OEM: 395209



FOR 1-3/16" DIA. PROP SHAFT
No. 22414

Cobra

PROP SHAFT PARTS - ALL (1991-1993)

No. 86810

PROP SHAFT
SEAL (2)
OEM: 334950



No. 22950

PROP SHAFT
BEARING
OEM: 434467



No. 11408

BEARING CARRIER
OEM: 5004257

Comes with:
86810, 22950, 22870



No. 22373

SCREW
OEM: 350271



No. 27850

TAB
OEM: 333957



No. 16300

THRUST BEARING -
REVERSE GEAR
OEM: 382408



No. 82400

O-RING -
BEARING
CARRIER
OEM: 305123



No. 22870

REVERSE GEAR
BEARING
OEM: 382407



No. 21642

THRUST WASHER -
REVERSE GEAR
OEM: 314731



No. 21651

THRUST
WASHER
OEM: 336565



No. 22417

PROP SHAFT 1-1/4
(1991-93)
OEM: 5004765



FOR 1-1/4" DIA. PROP SHAFT
No. 22417

For the 1991 model year the OMC Cobra lower gear housing was redesigned with a stronger propellor shaft and bearing carrier.

Propellor Shaft Changes

A shoulder machined into the propellor shaft contacts the reverse gear and prevents the shaft from being pulled out of the gear housing when shifted into reverse. The 1991-1993 propellor shaft utilizes a hardened steel thrust washer between the shoulder and the reverse gear. This hardened thrust washer keeps the shoulder on the prop shaft from damaging the inside of the gear when the boat is shifted into reverse. The shoulder on the 1991-1993 propellor shaft is machined deeper to accommodate the hardened thrust washer.

Another improvement on the 1991-1993 propellor shaft is an increase in diameter from 1-3/16 inches to 1-1/4 inches. The diameter was increased at the needle bearing, the prop shaft seal and the propellor thrust washer locations. The propellor splines remained the same.

Bearing Carrier

The 1991 - 1993 bearing carrier was redesigned with two hold-down tabs and two 5/16 inch bolts holding the carrier to the gear housing. The older carrier installs with four 1/4 inch bolts, a retainer plate and two internal retainer rings. The new carrier GLM #11408 also comes with a larger needle bearing and prop shaft seals for the larger diameter prop shaft. It can only be installed into 1991 and newer lower gear housings that have the notches for the hold down tabs.

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LOWER GEAR HOUSING - 4-CYL. 2.3L (1987-1990), 4-CYL. 3.0L (1986-1989)

No. 11052

SPRING
OEM: 324369



No. 21135

CROSS PIN
OEM: 313448



No. 22633

CLUTCH DOG
OEM: 912607



No. 16310

FORWARD GEAR
THRUST BEARING
OEM: 385043



No. 21644

FORWARD GEAR
THRUST WASHER
OEM: 324766



No. 21135

PIN
OEM: 313448



No. 27741

LEVER
OEM: 324037



No. 27720

DETENT
OEM: 915954



No. 27710

SHAFT
OEM: 322941



No. 27730

CRADLE
OEM: 982422



No. 22870

FORWARD GEAR
BEARING
OEM: 382407



No. 27702

HOUSING & BEARING ASSY
OEM: 391365

Includes 22870



No. 22491

DETENT BALL
OEM: 160084



No. 11055

SPRING
OEM: 911962



No. 28482

SHAFT & BEARING HSG KIT
OEM: N/A



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LOWER GEAR HOUSING - 3.0L (1990-1993), V6 & V8 (1986-1993)

No. 11052

SPRING
OEM: 324369



No. 21135

CROSS PIN
OEM: 313448



No. 22625

CLUTCH DOG
OEM: 915272



No. 16340

FORWARD GEAR
THRUST BEARING
OEM: 389042



No. 21646

FORWARD GEAR
THRUST WASHER
OEM: 327669



No. 21137

PIN
OEM: 328825



No. 27740

LEVER
OEM: 322938



No. 27720

DETENT
OEM: 915954



No. 27710

SHAFT
OEM: 322941



No. 27730

CRADLE
OEM: 982422



No. 22910

FORWARD GEAR
BEARING
OEM: 389039



No. 27700

HOUSING & BEARING ASSY
OEM: 389455

Includes 22910



No. 22491

DETENT BALL
OEM: 160084



No. 11055

SPRING
OEM: 911962



No. 28481

SHAFT & BEARING HSG KIT
OEM: N/A



No. 23112

TRIM TAB
OEM: 912392



No. 22368

SCREW
OEM: 313715



V6 & V8 (1986-93)
3.0L (1990-93)

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LOWER GEAR HOUSING SHIFT SHAFT (1986-1993)

No. 21033

SHIFT ROD
OEM: 914736

Fits:
1986-1993 with V6 & V8
1990-1993 with 4 cyl 3.0L



No. 26440

ROD END
OEM: 914723



No. 21245

NUT
OEM: 914743



No. 22388

SCREW
OEM: 308825



No. 21032

SHIFT ROD ASSEMBLY
OEM: 986658

Fits:
1986-1993 with V6 & V8
1990-1993 with 4 cyl 3.0L



No. 22390

WIPER
OEM: 912157



No. 22375

SCREW
OEM: 304027



No. 27750

COVER & SEAL ASSY.
OEM: 986838



No. 33960

GASKET
OEM: 911878



No. 45200

O-RING
OEM: 318372

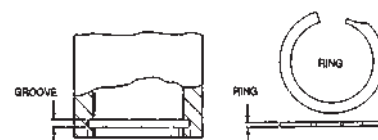
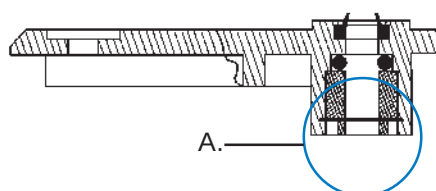


GLM'S RE-DESIGN OF THE COVER & SEAL ASSEMBLY

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!

No. 27750

OEM: 986838



A. View

*Smalley Steel Ring Co. is a GM vender



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LOWER GEAR HOUSING DRIVE SHAFT (1986-1993)

No. 12960

TUBE
OEM: 911706



No. 12961

GUIDE
OEM: 911715



No. 86620

SEAL - TUBE
OEM: 911705



No. 21180

NUT
OEM: 121731



No. 21490

WASHER
OEM: 305981



No. 27760

WATER PASSAGE HOUSING
OEM: 915720



No. 33970

GASKET
OEM: 915719



Water Passage

No. 83250

O-RING - UPPER
OEM: 318717



No. 22362

SCREW
OEM: 317624



No. 27770

BEARING HOUSING
OEM: 984462



No. 81380

O-RING - LOWER
OEM: 314728



No. 23590

SHIM 0.003"
OEM: 323362

No. 23580

SHIM 0.004"
OEM: 323361

No. 23510

SHIM 0.005"
OEM: 314745



No. 21645

THRUST WASHER
OEM: 327656



No. 16330

THRUST BEARING
OEM: 387656



No. 22404

UPPER DRIVE SHAFT
OEM: 911709



No. 12962

PLUG
OEM: 911710



No. 22406

LOWER DRIVE SHAFT
OEM: 911693

Fits:

1986-1993 with V6 & V8

1990-1993 with 4 cylinder 3.0L



No. 21610

PINION BEARING
OEM: 387817

Fits:

1986-1993 with V6 & V8

1990-1993 with 4 cyl 3.0L



No. 22880

PINION BEARING
OEM: 384195

Fits:

1986-1989 with 3.0L

1987-1990 with 2.3L



No. 11190

PINION NUT
OEM: 314730





Section 5

OMC Cobra Transom Assembly Parts 1986-1993

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TRANSOM ASSEMBLY (1986-1993)

Transom Service Kit

No. 21962

33

Shift Cable Assy. Kit

No. 21455

35

Guide Tube Kit

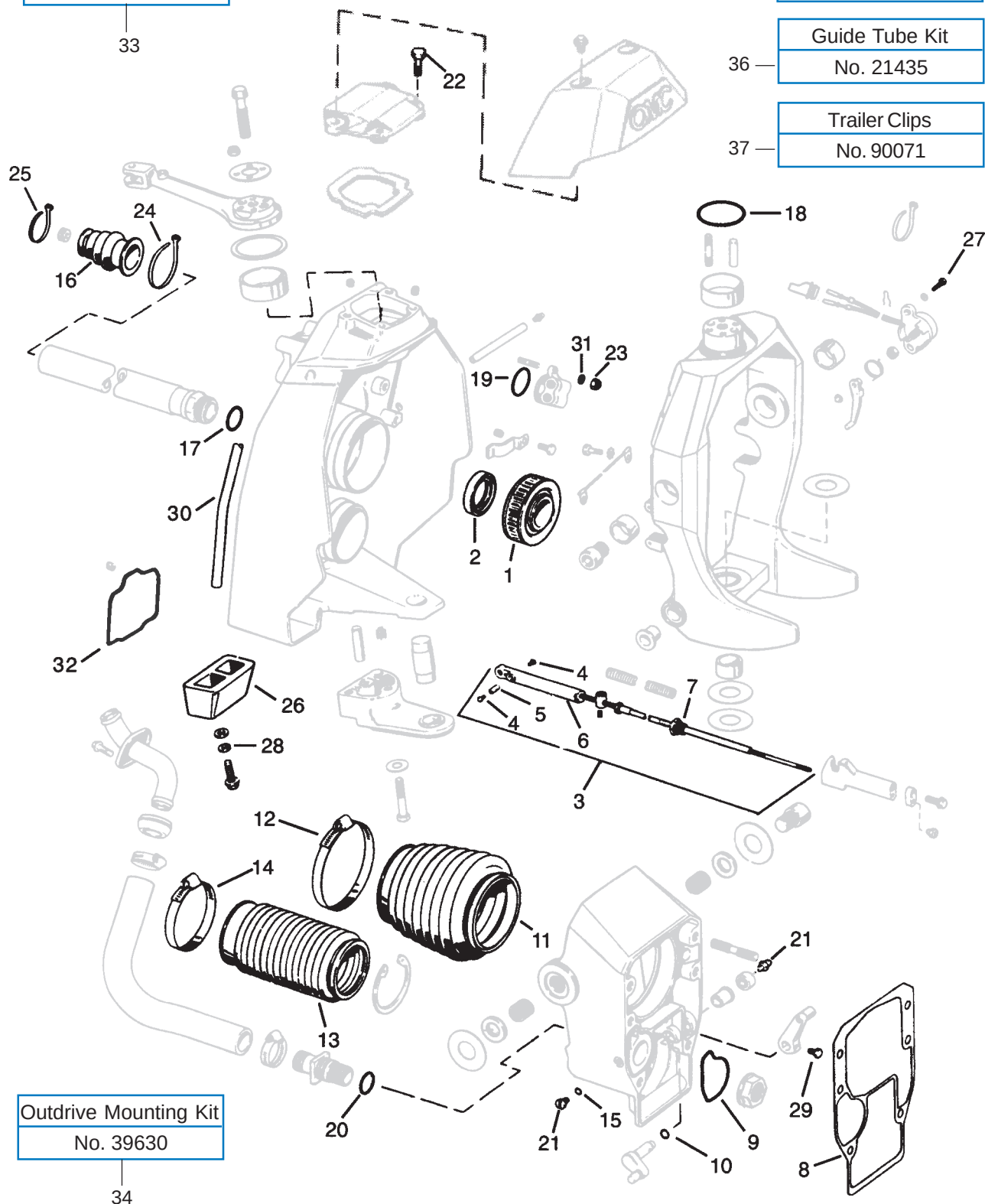
No. 21435

36

Trailer Clips

No. 90071

37



Outdrive Mounting Kit

No. 39630

34

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TRANSOM ASSEMBLY (1986-1993)

[illegible]

Cobra

SHIFT CABLE

No. 90520

SHIFT CABLE ADJUSTMENT TOOL KIT
OEM: 914017 + 915271
(Aluminum)



Kit contains:

GLM	OEM	ITEM
90500	914017	Bellcrank Alignment Plate
90510	915271	Shift Cable Tool

No. 90580

SHIFT CABLE ADJUSTMENT TOOL KIT
OEM: 914017 + 915271
(Plastic)



*Note: Individual Parts Not Sold Separately

Cobra (1986-1993)

No. 21455

SHIFT CABLE
ASSEMBLY KIT
OEM: N/A



Kit contains:

GLM	OEM	ITEM
21715	987661	Shift Cable Assembly Kit
39630	508105	Drive Installation Kit
89210	911826	Bellow
21465	320107	Cable Tie
21466	317893	Cable Tie

No. 21715

SHIFT CABLE
ASSEMBLY KIT
OEM: 987661



Now comes with No. 90580
Shift Cable Adjustment Tool Kit!



Cobra
(1986-1993)

No. 21433

SET SCREW
OEM: 912304



No. 21435

GUIDE TUBE KIT
OEM: N/A



Kit contains:

GLM	OEM	ITEM
21434	914742	Guide Tube
21433 (2)	912304	Set Screw
21432	915918	Anchor
80140	304174	O-ring

For All "Clutch Dog" Cobra

No. 21434

GUIDE TUBE
OEM: 914742



No. 21432

ANCHOR
OEM: 915918



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TRANSOM SERVICE KIT

No. 21962

OEM: N/A

Kit contains:

GLM	OEM	ITEM
39630	508105	Seal Kit
89210	911826	Shift Cable Bellow
89200	3854127	U-Joint Bellow
89190	914036	Exhaust Bellow
01090	3852604	Hose Clamp
01070	912628	Hose Clamp
21906	3853807	Gimbal Bearing
21465	320107	Cable Tie
21466	317893	Cable Tie

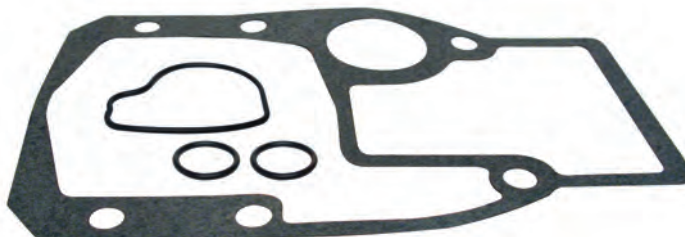


Cobra
(1986-1993)

TRANSOM COMPONENTS

No. 39630

OUTDRIVE
MOUNTING KIT
OEM: 508105



Kit contains:

GLM	OEM	ITEM
34730	915840	Gasket
86300	911823	Seal
81180 (2)	911851	O-ring

For All "Clutch Dog" Cobra
(1986-1993)

No. 21906

GIMBAL BEARING
ASSEMBLY
OEM: 3853807

NEW



GLM Built in U.S.A.

No. 89210

SHIFT CABLE BELLOW
OEM: 911826



Cobra
(1986-1993)

No. 89190

EXHAUST BELLOW
OEM: 914036



Cobra
(1986-1993)

No. 89200

U-JOINT BELLOW
OEM: 3854127



Cobra
(1986-1998)

No. 90071

TRAILERCLIPS
OEM: 174448

NEW



For OMC Cobra



Section 6

OMC Stringer Upper Gear Housing Parts 1985 & older

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Stringer

COMPLETE UPPER AND LOWER GEAR HOUSING ASSEMBLY

APPLICATION CHART (1973-1985)

Model	Year	Upper Complete	Upper Housing	Lower Complete	Lower Housing
All 4-Cylinder	1973-1977	27500	27000	-	-
All 4-Cylinder	1978-1985	27500	27000	28830*#	-
V6, 165 HP, 250 CID	1973-1977	27300	27000	-	-
V6 Chevy, 3.8L, 229 CID	1981-1985	27400	27000	28830	28600
V6 Chevy, 4.3L, 262 CID	1985	27300	27000	28830	28600
V6 Chevy, 5.0L, 307 CID	1973-1977	27200	27000	-	-
V6 Chevy, 5.0L, 305 CID	1978-1985	27200	27000	28830*	28600*
V8 Ford, 5.0L, 302 CID	1974-1977	27200	27000	-	-
V8 Chevy, 5.7L, 350 CID	1978-1985	27100	27000	28830*	28600*
V8 Ford, 5.8L, 351 CID	1975-1977	27100	27000	-	-
V8 Ford, 5.8L, 351 CID	1978-1979	27100	27000	28830*	28600*

*The GLM #28830 complete lower gear housing is a direct replacement for the 1981-1985 OMC lower gear housing. The installation of the 1981-1985 ESA (Electronic Shift Assist) components and shift cable are necessary to replace the lower gear housing on the 1978-1980 OMC sterndrives with hydraulic shift.

#The GLM #28830 complete V6/V8 lower gear housing (large diameter) can be used to replace the 1978-1985 four-cylinder lower gear housing (small diameter) if the upper housing gear ratio is changed to 21:20. The installation of the 1981-1985 ESA (Electronic Shift Assist) components and shift cable are necessary to replace the lower gear housing on the 1978-1980 OMC sterndrives with hydraulic shift.

^The GLM #28600 lower housing will not replace the 1978-1980 OMC lower housings with hydraulic shift.

Stringer

COMPLETE UPPER GEAR HOUSING ASSEMBLY (1973-1985)

100% New



Engine	Teeth on Original Gears	GLM No.	OEM No.
4-Cylinder, All	21T/18T	27500	982488
V6, 3.8L, 229 CID	21T/20T	27400	982739
L6, 165 HP	21T/19T	27300	981229
V6, 4.3L, 262 CID	21T/19T	27300	981229
V8 Ford, 5.0L, 302 CID	21T/17T	27200	982487
V8 Chevy, 5.0L, 305 CID	21T/17T	27200	982487
V8 Chevy, 5.7L, 350 CID	21T/16T	27100	982488
V8 Ford, 5.8L, 351 CID	21T/16T	27100	982488

Stringer

UPPER GEAR HOUSING (1973-1985)

No. 27000

OEM: 982226

1973-1985 OMC Empty Gear Housing Ready for Your Components

**Don't scrap a boat because of a corroded upper gear housing!
Replace it with a NEW housing from GLM.**

The GLM #27000 will work on all 1973-1985 OMC sterndrives and will accept the original internal and external OMC components.



Stringer

BEARING RETAINER ASSEMBLY KITS (1973-1985)

No. 22590 21T/16T

OEM: 982478

No. 22580 21T/17T

OEM: 982477

No. 22567 21T/18T

OEM: 982476

No. 22568 21T/19T

OEM: 984263

No. 22570 21T/20T

OEM: 982738



UPPER GEAR HOUSING REBUILD KITS (1973-1985)

No. 22519 21T/16T

OEM: N/A

No. 22516 21T/17T

OEM: N/A

No. 22537 21T/18T

OEM: N/A

No. 22538 21T/19T

OEM: N/A

No. 22539 21T/20T

OEM: N/A



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UPPER GEAR HOUSING SEAL KITS

No. 87651

OEM: 981799



For 100 thru 245 (1968-1972)

No. 87650

OEM: 982949



For All Models (1973-1985)

UPPER GEAR HOUSING KITS APPLICATION CHART (1973-1985)

Engine	Teeth on Original Gears	Upper Rebuild Kit	Bearing Retainer Kit	Upper Seal Kit
4-Cylinder, All	21T/18T	22537	22567	87650
V6, 3.8L, 229 CID	21T/20T	22539	22570	87650
L6, 165 HP	21T/19T	22538	22568	87650
V6, 4.3L, 262 CID	21T/19T	22538	22568	87650
V8 Ford, 5.0L, 302 CID	21T/17T	22516	22580	87650
V8 Chevy, 5.0L, 305 CID	21T/17T	22516	22580	87650
V8 Chevy, 5.7L, 350 CID	21T/16T	22519	22590	87650
V8 Ford, 5.8L, 351 CID	21T/16T	22519	22590	87650

Stringer

UPPER GEAR SETS (1973-1985)

GLM is first in the marine industry to have all of the OMC upper housing gear ratios.

Different size engines require different gear ratios in the drive. The manufacturer changes these ratios with different gear sets. The gear ratio change is in the upper gear housing*. All 1973-1985 OMC upper gear housings are identical** except for the tooth count on the gears. Below is a chart showing the tooth count for the different size engines used with OMC sterndrives.



All GLM upper gear sets come with:

GLM No.	OEM No.	Item
21544	382212	Bearing
21545	379585	Bearing
21547	375761	Bearing

Engine	Teeth on Original Gears	GLM No.	OEM No.
4-Cylinder, All	21T/18T	22518	982244
V6, 3.8L, 229 CID	21T/20T	22530	982835
L6, 165 HP	21T/19T	22514	984262
V6, 4.3L, 262 CID	21T/19T	22514	984262
V8 Ford, 5.0L, 302 CID	21T/17T	22512	982259
V8 Chevy, 5.0L, 305 CID	21T/17T	22512	982259
V8 Chevy, 5.7L, 350 CID	21T/16T	22510	982261
V8 Ford, 5.8L, 351 CID	21T/16T	22510	982261

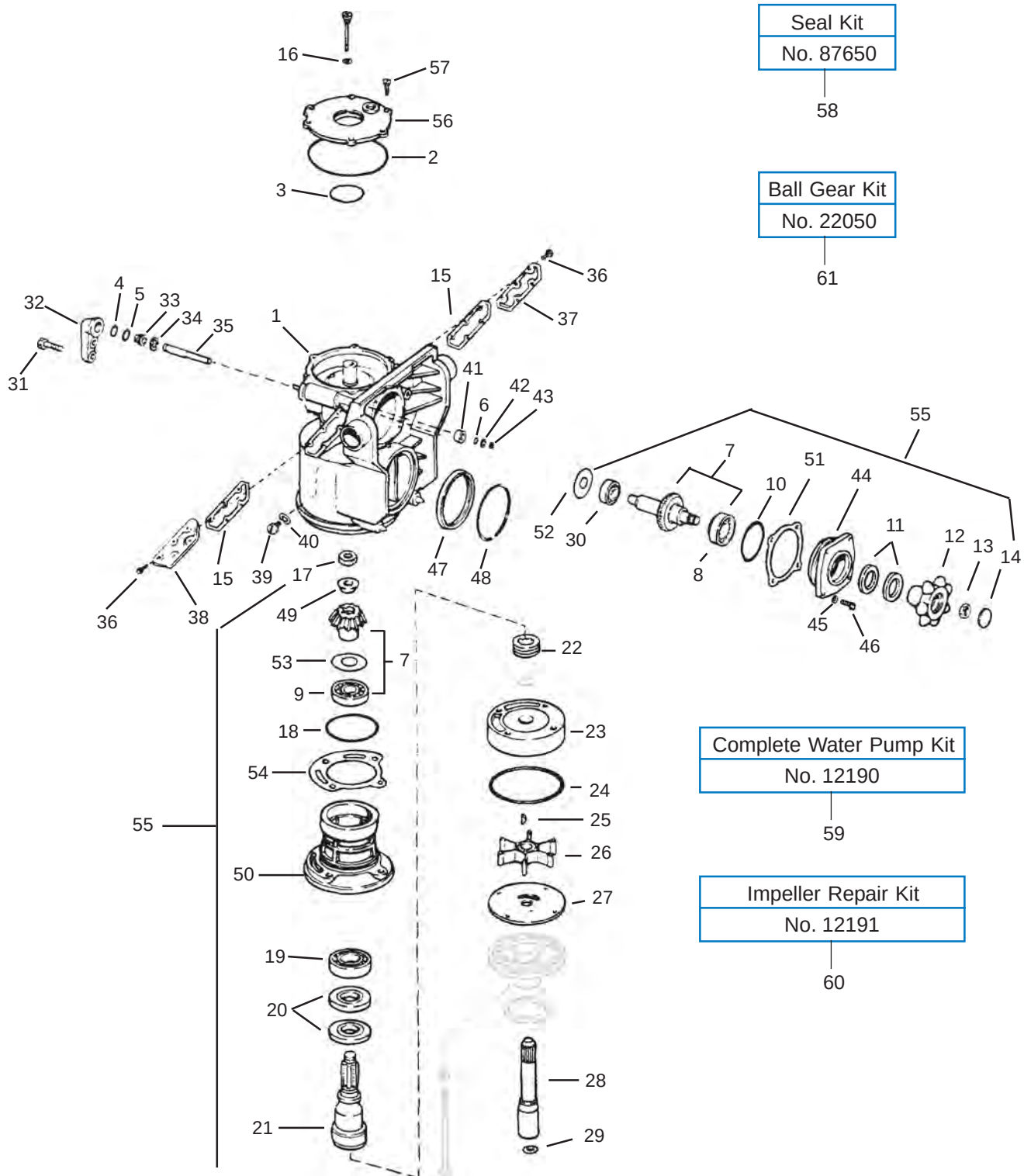
*All lower gear housing ratios are either 2.0:1 for the four-cylinder engines or 1.83:1 for the six and eight-cylinder engines.

The original driven gears in 1973 and 1974 upper gear housings are **not machined for a centering cone. All 1975 and newer driven gears and all GLM replacement driven gears are machined for a centering cone. A new drive shaft with shorter splines and a centering cone must be installed when replacing the original (non-centering cone) driven gear.

Rebuild your OMC powered boat with high quality GLM parts!
GLM is the source for OMC parts!

Stringer

UPPER GEAR HOUSING (1973-1985)



Stringer

UPPER GEAR HOUSING (1973-1985)

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
27000	1	982226	Upper Gearcase Assembly	27830	43	911317	Retaining Ring
82480	2	313175	O-ring	27960	44	313184	Bearing Retainer
82250	3	310327	O-ring (Electric Shift)	21492	45	302290	Lockwasher
82250	3	910582	O-ring (400-800)	22327	46	909386	Screw
82140	4	302540	O-ring (Early Model)	86652	47	308768	Seal
80230	4	909140	O-ring (Late Model)	11056	48	308590	Spring
42140	5	909139	Quad Ring	22515	49	909123	Centering Cone
41120	6	909048	Quad Ring	27950	50	910240	Bearing Housing
22510	7	982261	Gears 21:16	23312	51	313202	Shim .002
22512	7	982259	Gears 21:17	23313	51	313203	Shim .003
22514	7	984262	Gears 21:19	23314	51	313204	Shim .004
22518	7	982835	Gears 21:18	23315	51	313205	Shim .005
22530	7	982244	Gears 21:20	23316	51	313206	Shim .006
21544	8	382212	Bearing	23323	52	313163	Shim .003
21545	9	379585	Bearing	23324	52	313164	Shim .004
82350	10	308621	O-ring	23325	52	313165	Shim .005
86080	11	981196	Oil Seal	23326	52	313166	Shim .006
22020	12	908069	Ball Gear	23327	52	313167	Shim .007
22330	13	908064	Nut	23328	52	313168	Shim .008
22030	14	908052	Cover	23333	53	313193	Shim .003
34180	15	308592	Gasket	23334	53	313194	Shim .004
33050	16	315189	Gasket	23335	53	313195	Shim .005
22310	17	907866	Lock Nut	23336	53	313196	Shim .006
82360	18	553126	O-ring	23337	53	313197	Shim .007
21546	19	382165	Bearing	23338	53	313198	Shim .008
86090	20	981268	Oil Seal	23339	53	313199	Shim .009
22412	21	909121	Drive Shaft (Low Profile)	23340	53	313200	Shim .010
22422	21	981220	Drive Shaft (High Profile)	23345	54	313185	Shim .005
22423	21	382883	Drive Shaft (High Profile)	23346	54	313186	Shim .006
86100	22	907774	Shaft Seal	23347	54	313187	Shim .007
12390	23	983298	Pump Housing	23348	54	313188	Shim .008
82520	24	910238	O-ring	23349	54	313189	Shim .009
89595	25	308928	Key	23350	54	313190	Shim .010
89760	26	777130	Impeller Pump Plate	22567	55	982476	Bearing Retainer Assy. 2.5/3.0L
12590	27	313176	Pump Plate	22570	55	982738	Bearing Retainer Assy. 3.8L
22410	28	909753	Pump Drive Shaft (Low Profile)	22568	55	984263	Bearing Retainer Assy. 4.3L
22411	28	908087	Pump Drive Shaft (High Profile)	22580	55	982477	Bearing Retainer Assy. 5.0L
80220	29	314491	O-ring	22590	55	982478	Bearing Retainer Assy. 5.7L
21547	30	375761	Bearing	27860	56	313228	Cover
22329	31	305282	Screw	22307	57	909638	Screw
27970	32	908870	Bracket	87650	58	982949	Seal Kit
27990	33	908871	Retainer	12190	59	983218	Complete Water Pump Kit
27840	34	911316	Retainer Ring	12191	60	-	Impeller Repair Kit
27980	35	908890	Spacer Shaft	22050	61	-	Ball Gear Kit
22328	36	3852473	Screw				
28440	37	308699	Water Cover - Stbd.				
28450	38	308591	Water Cover - Port				
21731	39	318544	Screw Set				
31171	40	311598	Gasket				
27820	41	308883	Bushing				
31173	42	314390	Gasket				

Stringer

UPPER GEAR HOUSING COMPONENTS

No. 22050

BALL GEAR KIT

Kit contains:

GLM	OEM	ITEM
82350	308621	O-ring
22030	908062	Cover (2)
22010	908063	Ball Gear
22330	908064	Nut (2)
22020	908069	Ball Gear
81440	908383	O-ring
86010	981195	Seal (2)
86080	981196	Seal (2)



No. 27960

BEARING RETAINER
OEM: 313184



No. 86080

SEAL - BEARING
RETAINER (2)
OEM: 981196



No. 22020

BALL GEAR
OEM: 908069



No. 22330

BALL GEAR NUT
OEM: 908064



No. 21492

LOCKWASHER
OEM: 302290



No. 22327

SCREW
OEM: 909386



No. 22030

BALL GEAR COVER
OEM: 908062



No. 21544

TAPERED ROLLER
BEARING - RETAINER
OEM: 382212



No. 82350

O-RING -
BEARING - RETAINER
OEM: 308621



SHIMS

No. 23312 (.002)

OEM: 313202

No. 23313 (.003)

OEM: 313203

No. 23314 (.004)

OEM: 313204

No. 23315 (.005)

OEM: 313205

No. 23316 (.010)

OEM: 313206

No. 23310

COMPLETE KIT
OEM: N/A

No. 22010

BALL GEAR
OEM: 908063

Intermediate Housing



SHIMS - REAR BEARING

No. 23323 (.003)

OEM: 313163

No. 23324 (.004)

OEM: 313164

No. 23325 (.005)

OEM: 313165

No. 23326 (.006)

OEM: 313166

No. 23327 (.007)

OEM: 313167

No. 23328 (.008)

OEM: 313168

No. 23320

COMPLETE KIT
OEM: 313163



No. 21547

TAPERED ROLLER BEARING
OEM: 375761



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UPPER GEAR HOUSING COMPONENTS

No. 22310

NUT
OEM: 907866



No. 22515

CENTERING CONE
OEM: 909123



No. 21545

UPPER TAPERED
ROLLER BEARING
OEM: 379585



No. 82360

O-RING - BEARING HOUSING
OEM: 553126



SHIMS

No. 23333 (.003)

OEM: 313193

No. 23334 (.004)

OEM: 313194

No. 23335 (.005)

OEM: 313195

No. 23336 (.006)

OEM: 313196

No. 23337 (.007)

OEM: 313197

No. 23338 (.008)

OEM: 313198

No. 23339 (.009)

OEM: 313199

No. 23340 (.010)

OEM: 313200

No. 23330

COMPLETE KIT

OEM: N/A



SHIMS

No. 23345 (.005)

OEM: 313185

No. 23346 (.006)

OEM: 313186

No. 23347 (.007)

OEM: 313187

No. 23348 (.008)

OEM: 313188

No. 23349 (.009)

OEM: 313189

No. 23350 (.010)

OEM: 313190

No. 27950

BEARING HOUSING
OEM: 910240



No. 21546

LOWER TAPERED
ROLLER BEARING
OEM: 382165



No. 86090

SEAL (2)
OEM: 981268



Stringer

DRIVE SHAFTS (1973-1985)

No. 22412

OEM: 909121

All
(1978-1985)



Low Profile
(1975-1977)

No. 22422

OEM: 981220

Short Spline

Electric Shift
Use WITH centering cone No. 22515



High Profile
(1975-1977)

No. 22423

OEM: 382883

Long Spline

Electric Shift
Use WITHOUT centering cone



High Profile
(1973-1974)

Model	Year	Upper Drive Shaft
All Models High Profile*	1973-1974	22423 Long Shaft
All Models Low Profile*	1973-1974	NLA - Short Shaft
All Models High Profile**	1975-1977	22422 Long Shaft
All Models Low Profile***	1975-1985	22412 Short Shaft

* Starting with model year 1975 all driven gears were machined to accept a centering cone below the drive shaft retaining nut. This centering cone requires a drive shaft with a shorter spline.

Upper gear housings, model year 1973 and 1974, with the original driven gear (no centering cone) require GLM #22423 drive shaft with longer splines. **This drive shaft fits only the high profile gear case.** GLM does not manufacture the drive shaft with longer splines for the low profile gear case.

All 1975 and newer upper gear housings and all older upper gear housings utilizing the new driven gear (with centering cone) will utilize drive shaft GLM #22412 (low profile) or GLM #22422 (high profile).

**The high profile upper gear housing was discontinued for 1978.

***All 1978-1985 upper gear housings are low profile.



Stringer

No.28440

WATER COVER-STBD
OEM: 308699



No.28450

WATER COVER -PORT
OEM: 308591



No. 34180

WATER COVER
GASKET (2)
OEM: 308592



No. 22328

SCREW
OEM: 3852473



No. 22307

SCREW
OEM: 9096381



No. 82250

O-RING
OEM: 910582



No. 27860

COVER
OEM: 313228



No. 86652

SEAL
OEM: 308768



No. 11056

SPRING
OEM: 308590



No. 82480

O-RING - COVER
OEM: 313175



STEERING

No. 27970

BRACKET
OEM: 908870



No. 42140

QUAD RING
OEM: 909139



No. 27820

BUSHING
OEM: 308883



No. 27820

BUSHING
OEM: 308883



No. 31173

GASKET
OEM: 314390



No. 80230

O-RING
OEM: 909140



No. 27990

RETAINER
OEM: 908871



No. 27980

SPACER SHAFT
OEM: 908890



No. 41120

QUAD RING
OEM: 909048



No. 27840

RETAINER
OEM: 911316



No. 22329

SCREW
OEM: 305282





Section 7

OMC Stringer Lower Gear Housing Parts 1985 & Older

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Stringer

COMPLETE UPPER AND LOWER GEAR HOUSING ASSEMBLY

APPLICATION CHART 1973-1985

Model	Year	Upper Complete	Upper Housing	Lower Complete	Lower Housing
4-Cylinder, All	1973-1977	27500	27000	-	-
4-Cylinder, All	1978-1985	27500	27000	28830#	-
L6, 165 HP, 250 CID	1973-1977	27300	27000	-	-
V6 Chevy, 3.8L, 229 CID	1981-1985	27400	27000	28830	28600
V6 Chevy, 4.3L, 262 CID	1985	27300	27000	28830	28600
V8 Chevy, 5.0L, 307 CID	1973-1977	27200	27000	-	-
V8 Chevy, 5.0L, 305 CID	1978-1985	27200	27000	28830*	28600^
V8 Ford, 5.0L, 302 CID	1974-1977	27200	27000	-	-
V8 Chevy, 5.7L, 350 CID	1978-1985	27100	27000	28830*	28600^
V8 Ford, 5.8L, 351 CID	1975-1977	27100	27000	-	-
V8 Ford, 5.8L, 351 CID	1978-1979	27100	27000	28830*	28600^

*The GLM #28830 complete lower gear housing is a direct replacement for the 1981-1985 OMC lower gear housing. The installation of the 1981-1985 ESA (Electronic Shift Assist) components and shift cable are necessary to replace the lower gear housing on the 1978-1980 OMC sterndrives with hydraulic shift.

#The GLM #28830 complete V6/V8 lower gear housing (large diameter) can be used to replace the 1978-1985 four-cylinder lower gear housing (small diameter) if the upper housing gear ratio is changed to 21:20. The installation of the 1981-1985 ESA (Electronic Shift Assist) components and shift cable are necessary to replace the lower gear housing on the 1978-1980 OMC sterndrives with hydraulic shift.

^The GLM #28600 lower housing will not replace the 1978-1980 OMC lower housings with hydraulic shift.

Stringer

COMPLETE LOWER GEAR HOUSING ASSEMBLY - V6 & V8 (1978-1985)

No. 28830

OEM: 987242

Ratio: 12:22

Strongest Lower Gear Housing Assembly in the Marine Industry for 1978-1985* OMC V6 and V8 Sterndrives

☆ Without Shift Assembly ☆



All GLM replacement lower gear housings for the V6 and V8 OMC Stringer sterndrives have the new heavy duty #22666 gear sets. This new gear set has fewer, larger, 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. During the gear machining process an additional pass is made over each tooth for a finer surface. This makes the gear operation especially quiet. These durable gears are capable of operating with up to 300 horsepower. All GLM lower gear housings have the large 1-1/4 inch diameter prop shafts with a reverse thrust washer installed between the shaft and reverse gear**.

*Many 1978-1980 OMC sterndrives have had the hydraulic shift lower gear housing replaced with the 1981-85 mechanical shift lower gear housing. Sterndrives with the original hydraulic shift lower gear housing do not have an ESA (electronic shift assist) box or overstroke switches on the shift converter. 1978-1980 sterndrives that have been converted to the mechanical shift lower gear housing do/must have the ESA and overstroke switches installed.

**For model year 1991 OMC increased the prop shaft diameter at the carrier needle bearing (not the prop splines) from 1-3/16 to 1-1/4 inches. The larger prop shaft/needle bearing is a direct replacement into the 1981-1985 lower gear housing and is installed in all GLM lower gear housings.

Year	Model	Lower Housing	Lower Complete
1981-85	V6, 3.8L	28600	28830
1985	V6, 4.3L	28600	28830
1981-85	V8, 5.0L, 200-230HP	28600	28830
1981-85	V8, 5.7L, 260HP	28600	28830

Stringer

GEAR HOUSING ASSEMBLY (1978-1985)

No. 28600

OEM: 438050

1978-1985 OMC Empty Gear Housing Ready for Your Components

**Don't scrap a boat because of a damaged or corroded lower gear housing!
Replace it with a NEW housing from GLM.**



The GLM #28800 will fit on all 1978 -1985 OMC sterndrives with a V6 or V8 engine and mechanical shift*. It will accept the original internal and external OMC components**.

* Will not fit the 1978-1980 with hydraulic shift.

** Must use the propellor bearing carrier GLM #11406

List of improvements made to the GLM housing:

- **Sand Cast from superior A356T5 Aluminum Alloy**
(Original is Die Cast from inferior A380T6)
- **Mer cruiser style pressed fit pinion needle bearing**
(Original is held in place with a screw)
- **Prop Shaft Carrier is retained with bolts and tabs (1991-1993 Cobra style)**
(1978-1985 carriers are held in place with internal snap rings and 1/4" bolts)
- **Prop Shaft Carrier is prevented from rotating with a key and groove**
- **Water pickup screens are removable with out disassembling the drive.**
(1978-1985 water screens are removed only from the inside of the gear housing)

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COMPLETE GEAR HOUSING ASSEMBLY KIT

No. 28870

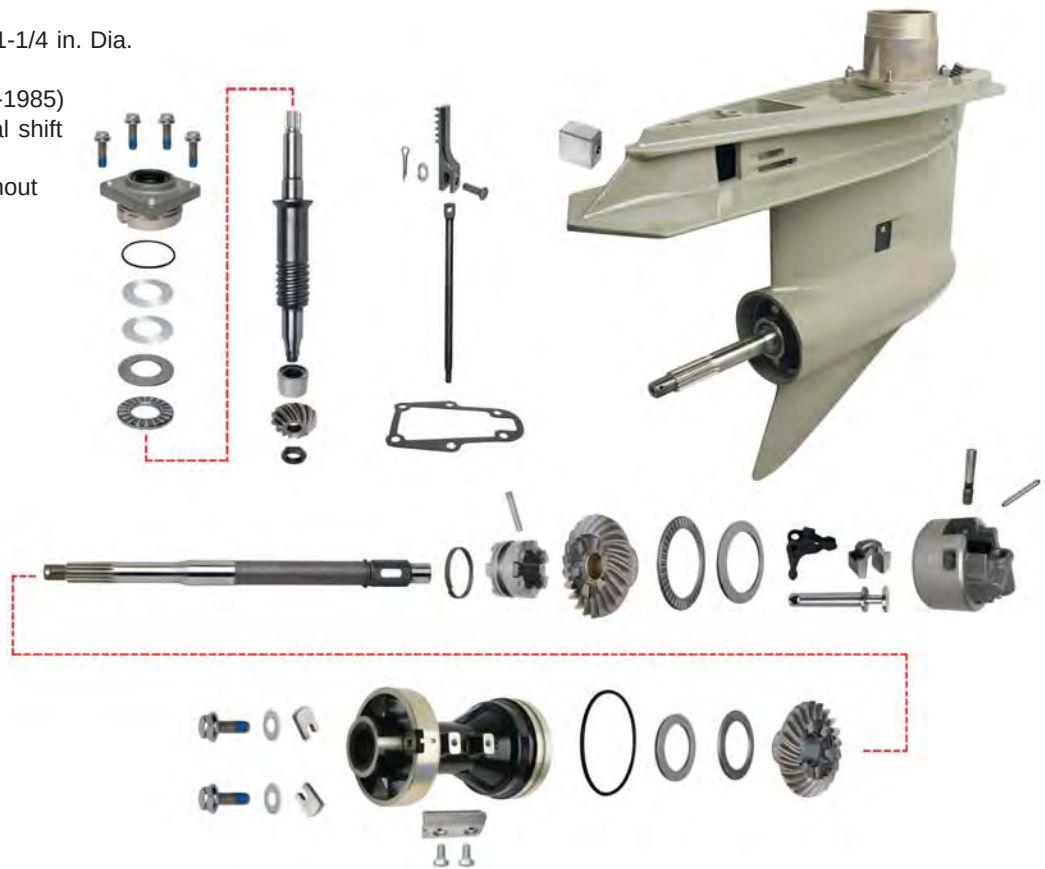
OEM: N/A

1.86 Ratio

All Prop Shaft 1-1/4 in. Dia.

V6 & V8 (1978-1985)
with mechanical shift

*Kit comes without
SHIFT ASSY.



LOWER GEAR HOUSING SEAL KITS

No. 87620

OEM: 981797

(1968-1977)
with electric shift



No. 87630

OEM: 982946

V6 & V8 (1978-1985)
with mechanical shift



No. 87640

OEM: 982947

4-Cyl. (1978-1985)
with mechanical shift



Stringer

LOWER GEAR HOUSING COMPONENTS - WITH MECHANICAL SHIFT (1978-1985)

V6, V8 w/
Mech. Shift
Seal Kit

No. 87630

69

4-Cyl. w/
Mech. Shift
Seal Kit

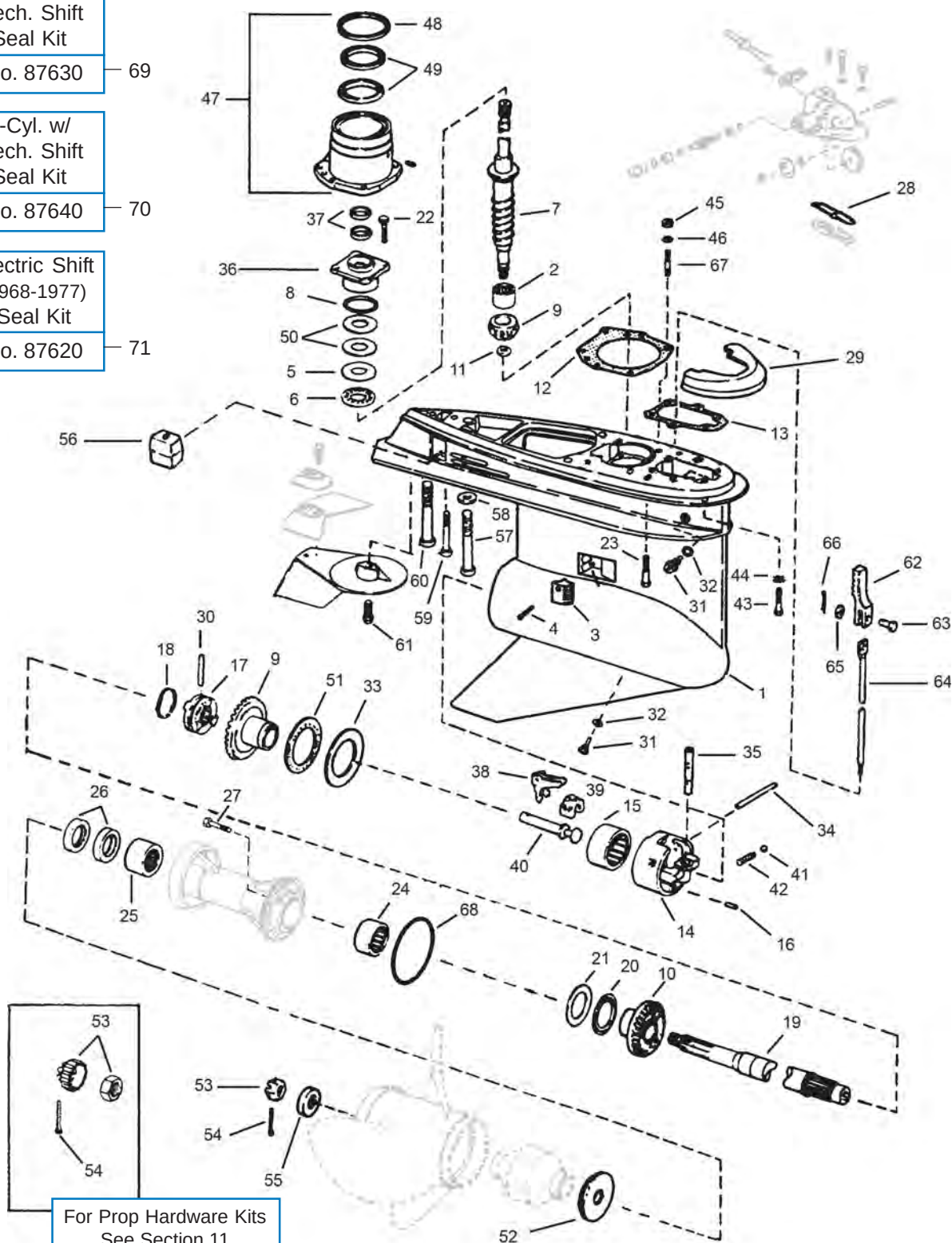
No. 87640

70

Electric Shift
(1968-1977)
Seal Kit

No. 87620

71



For Prop Hardware Kits
See Section 11

Stringer

LOWER GEAR HOUSING COMPONENTS - WITH MECHANICAL SHIFT (1978-1985)

GLM No.	Ref No.	OEM No.	Description	GLM No.	Ref No.	OEM No.	Description
28600	1	438050	Gearcase Assembly	27740	38	322938	Lever
21610	2	387817	Pinion Bearing	27741*	38	324037	Lever 4-Cyl.*
22880*	2	384195	Pinion Bearing 4-Cyl.*	27730	39	982422	Cradle
21885	3	337778	Screen	27710	40	322941	Shaft
22363	4	337061	Screw	22491	41	160084	Detent Ball
21645	5	327656	Thrust Washer	11055	42	911962	Spring
16330	6	387656	Thrust Bearing	22369	43	912127	Screw
22413	7	982424	Drive Shaft	21761	44	328701	Lockwasher
81380	8	314728	O-ring	21180	45	121731	Nut
22623*	9	5004216	P/Forward Gear Set M*	21490	46	305981	Washer
22621*	9	435088	P/Forward Gear Set H*	27780+	47	982439	Swivel Bearing Retainer V6 & V8 +
22631*	9	986979	P/Forward Gear Set 4-Cyl.*	86040	48	310649	Oil Seal
22624	10	910994	Reverse Gear	86050	49	313353	Oil Seal
22632*	10	345992	Reverse Gear 4-Cyl.*	23590	50	323362	Shim .003
22666	9+10	-	Gear Set (Heavy Duty)	23580	50	323361	Shim .004
11190	11	314730	Nut	23510	50	314745	Shim .005
34720	12	910236	Gasket	16340	51	389042	Thrust Bearing
33730*	12	910338	Gasket 4-Cyl.*	16310*	51	385043	Thrust Bearing 4-Cyl.*
33020	13	324670	Gasket	22230*	52	127084	Thrust Washer 4-Cyl.*
27700	14	389455	Housing & Bearing Assembly	22221	52	126870	Thrust Washer
27702*	14	391365	Housing & Bearing Assy. 4-Cyl.*	22150*	53	314503	Nut 4-Cyl.*
22910	15	389039	Bearing	22185	54	398042	Nut & Keeper
22870*	15	382407	Bearing 4-Cyl.*	22120*	54	314502	Cotter Pin 4-Cyl.*
21138	16	331880	Pin	22142	54	306394	Cotter Pin
22625	17	337774	Clutch Dog	22250*	55	315810	Spacer 4-Cyl.*
22633*	17	910578	Clutch Dog 4-Cyl.*	22190	55	320570	Spacer
11052	18	324369	Spring	12776	56	436745	Anode
22414*	19	395209	Prop Shaft M*	22365	57	914535	Screw 7/16 x 3-1/2 -14
22416*	19	436888	Prop Shaft (1976-1986) 4-Cyl.*	21674	58	330265	Washer
16300	20	382408	Thrust Bearing	22366	59	328096	Screw
21642	21	314731	Thrust Washer	22367	60	330263	Screw 3/8 x 3-1/2 -16
22362	22	317624	Screw	22368	61	313715	Screw
22371	23	331999	Screw 3/8 x 1-3/4 -16	27870	62	910311	Rack
22870	24	382407	Bearing	27880	63	910539	Pin
11410	25	387247	Bearing	27890+	64	910309	Shift Rod V6 & V8 +
85130	26	320862	Oil Seal	21678	65	306358	Washer
22300	27	316563	Screw	22145	66	306376	Cotter Pin
34690	28	909604	Gasket	22473	67	910551	Stud
12773	29	983494	Anode	82400	68	305123	O-ring
21135	30	313448	Cross Pin	82370*	68	313446	O-ring 4-Cyl.*
21731	31	318544	Draining Screw	87630	69	982946	Seal Kit V6 & V8 w/ Mech. Shift
31171	32	311598	Gasket	87640	70	982947	Seal Kit 4-Cyl. w/ Mech. Shift
21646	33	327669	Thrust Washer	87620	71	981797	Seal Kit w/ Electric Shift (1968-77)
21644*	33	324766	Thrust Washer 4-Cyl.*	*The 1978-1985 OMC Sterndrives with four-cylinder engines utilize a small diameter lower gear housing. +The 1978-1986 OMC sterndrives with V6 or V8 engines use a large diameter lower gear housing. The lower gear housing parts are interchangeable except where noted with an asterisk or plus sign. M* - Mechanical Shift H* - Hydraulic Shift			
21137	34	328825	Pin				
21135*	34	320145	Pin 4-Cyl.*				
27721	35	910310	Detent				
22730	36	982422	Bearing Housing & Seal				
86060	37	321467	Oil Seal				

Stringer

LOWER GEAR HOUSING GEARS - V6 & V8

HEAVY DUTY Gear Set GLM #22666

Includes #21651 thrust washer*



When all three gears need replacing in your OMC sterndrive the installation of the GLM #22666 heavy-duty gear set is highly recommended. The heavy-duty gears can be used with all V6 and V8 OMC sterndrives from 1978-1985 with mechanical shift (not 1978-1980 with hydraulic shift).

It is recommended that a new clutch GLM # 22625 (this clutch is not included with the gear set) be installed with the heavy-duty gears.

GLM #22666 heavy-duty gears fit these OMC Sterndrive units:

3.8L/229CI	V6	1981-85
4.3L/262CI	V6	1985
5.0L/305CI	V8	1981-85
5.7L/350CI	V8	1981-85

IMPORTANT NOTE:

The new heavy-duty GLM #22666 gears will not interchange with the standard gears. For individual gear replacement, you must use the standard duty GLM #22623 pinion and forward gears or the GLM #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.

*For model year 1990 OMC increased the prop shaft diameter at the carrier needle bearing (not the prop splines) from 1-3/16 to 1-1/4 inches. 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.

