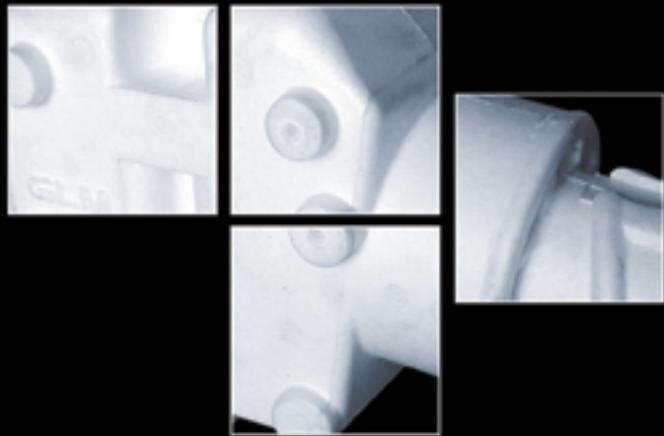




Manifold Catalog

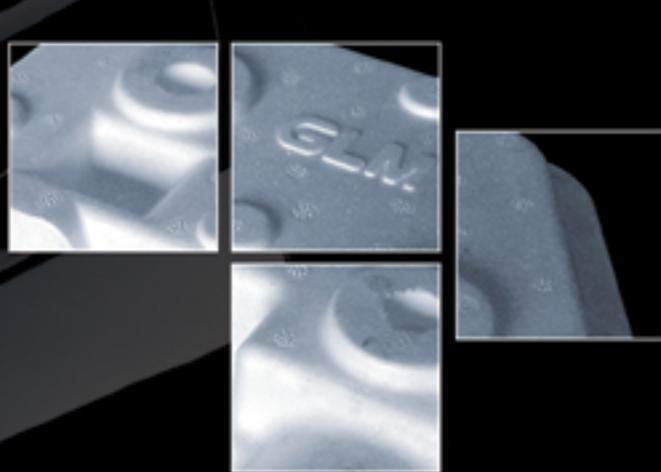
Lost Foam CASTING



| The Casting Process |

"Through the use of precisely molded foam pieces, which are glued together, a highly accurate model for the desired casting can be made.

This foam model is casted with an insoluble "slurry" solution. After drying, sand is poured into the foam piece until every passageway inside the casting and all the surrounding outside walls are completely covered with sand. Then through the use of a specially designed funnel, molten metal (iron) is poured in, which vaporizes and takes the place of the foam piece. Once the casting hardens, the sand is removed; the component is inspected and machined as needed."



| Advantages |

- More rigid, less chance of failure.
- More durable and reliable than other types of cast-iron technology.
- Greater control over the accuracy of the casting-wall thickness, preventing thin spots that can corrode through prematurely.
- Longer corrosion resistance, lost foam process improves life (especially in saltwater).
- No structural limitations for castings.
- No fins around coreprints or parting lines.
- In most cases, separate cores are not needed.
- Excellent dimensional tolerances.

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GLM COMPLETE MANIFOLD LINE

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MAXIMUM MANIFOLD FEATURES

FULLY TUNED

- Designed to Increase Performance, Reduce Back Pressure and Add More Horsepower to your Engine!

PROTECTION

- Cast Iron's are Black Painted and Aluminum's are Black Powdercoated for Corrosion Resistance!

LOST FOAM

- The Only Manifold in the Aftermarket Manufactured using the "Lost Foam" Casting Process!

ELBOWS / RISERS



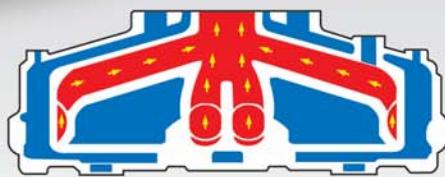
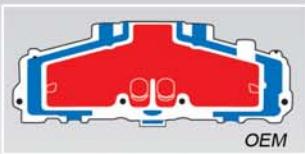
In the Merc. 4" riser, there are 2 extra exits at each side. This allows water to exit more efficiently, keeping engine cooler.



- More Rigid, Less Chance of Failure.
- Excellent Dimensional Tolerances.
- No Structural Limitations for Casting.
- More Durable and Reliable than Other Types of Cast-Iron Technology.
- Greater Control over the Accuracy of the Wall Thickness, Preventing Thin Spots that can Corrode Through Prematurely.

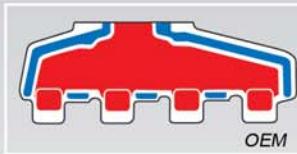


SMALL BLOCK



Our fully tuned design guides exhaust gases directly to riser without turbulence and back pressure. This increases the engines performance up to 10%. In the meantime, an additional 40% water cooling area will decrease the entire manifold body temperature significantly.

BIG BLOCK



Our fully tuned design will reduce turbulence and enhance flow for added performance. An extra 30% water cooling area will help reduce temperature in the exhaust exit area allowing for longer gasket life.



GLM Manifolds are Available in Cast Iron and Aluminum. We also offer 100% Complete Sets and Complete Conversion Kits!



GLM Products, Inc., 705 Los Angeles Avenue, Monrovia, CA 91016 USA
(626) 357-0077 TEL, (626) 357-0600 FAX, info@glmmarine.com

www.glmmarine.com

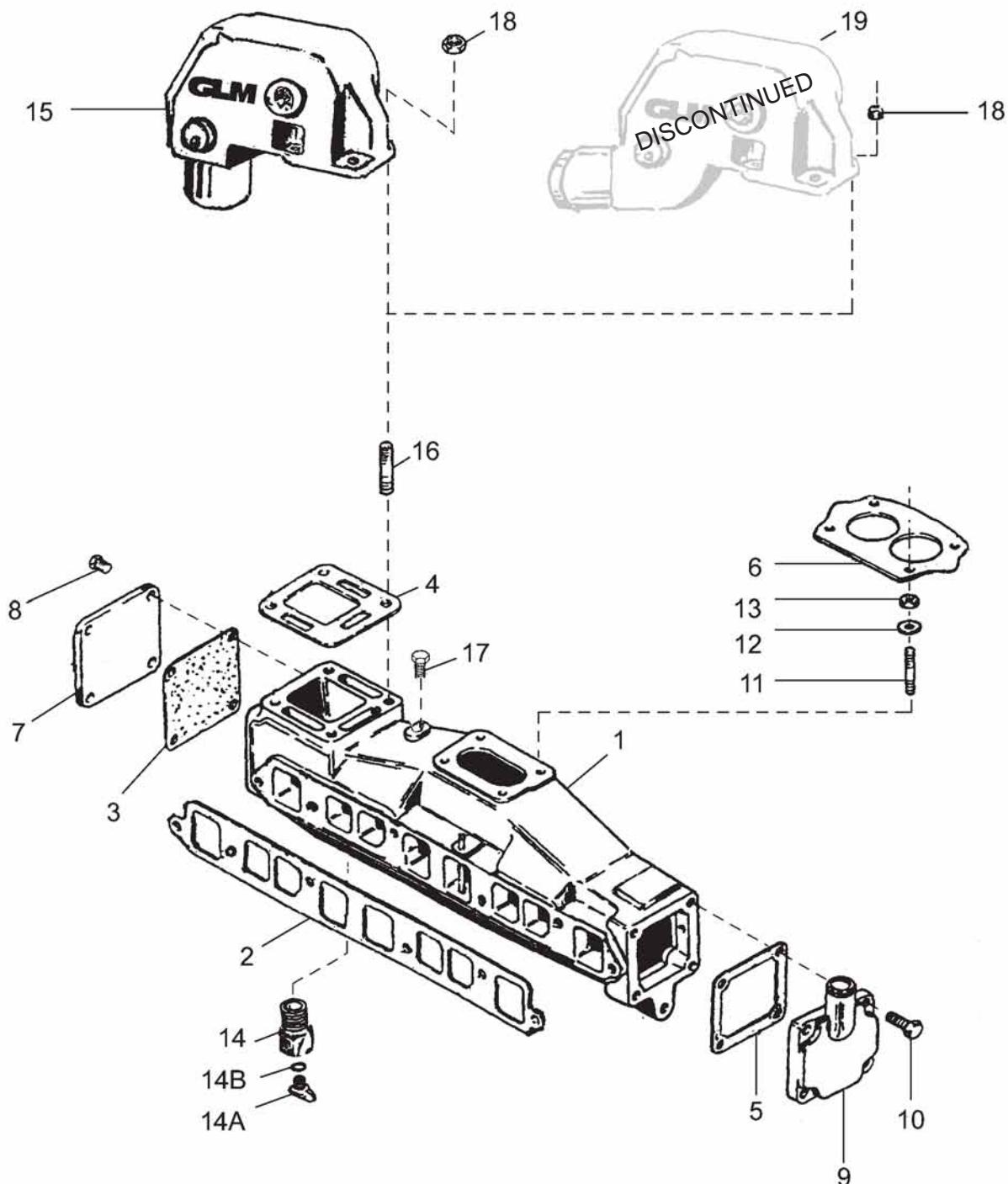
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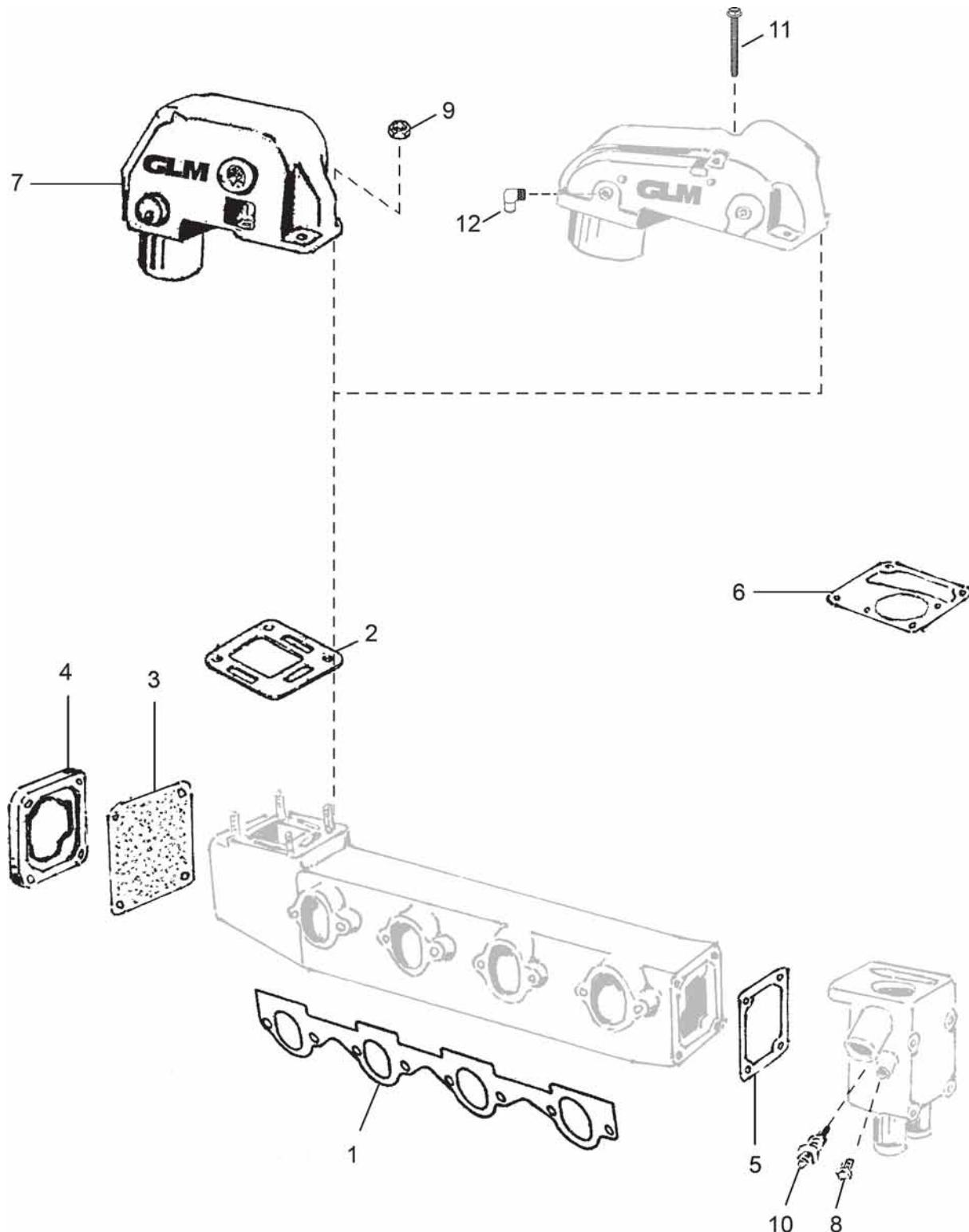
Mercruiser

MODEL 140 - INLINE 4, GM 181 CID, 4-CYL. (1968-82)



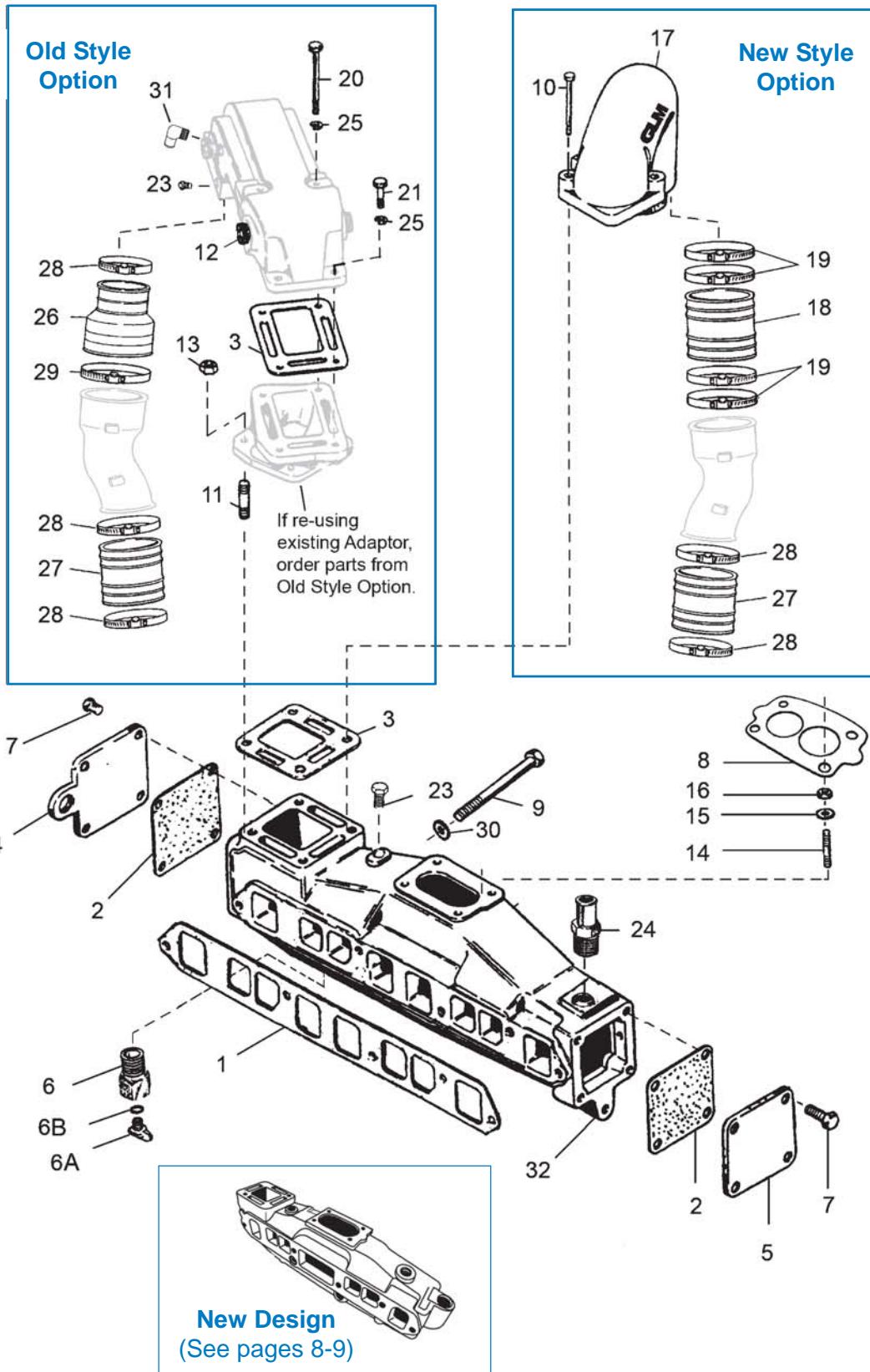
Mercruiser

MODEL MCM/MIE 470 - INLINE 4, 224 CID, 4-CYL. (1976-82)



Mercruiser

MODEL 120/140 - INLINE 4, 153/181 CID, 4-CYL. (1982-95)



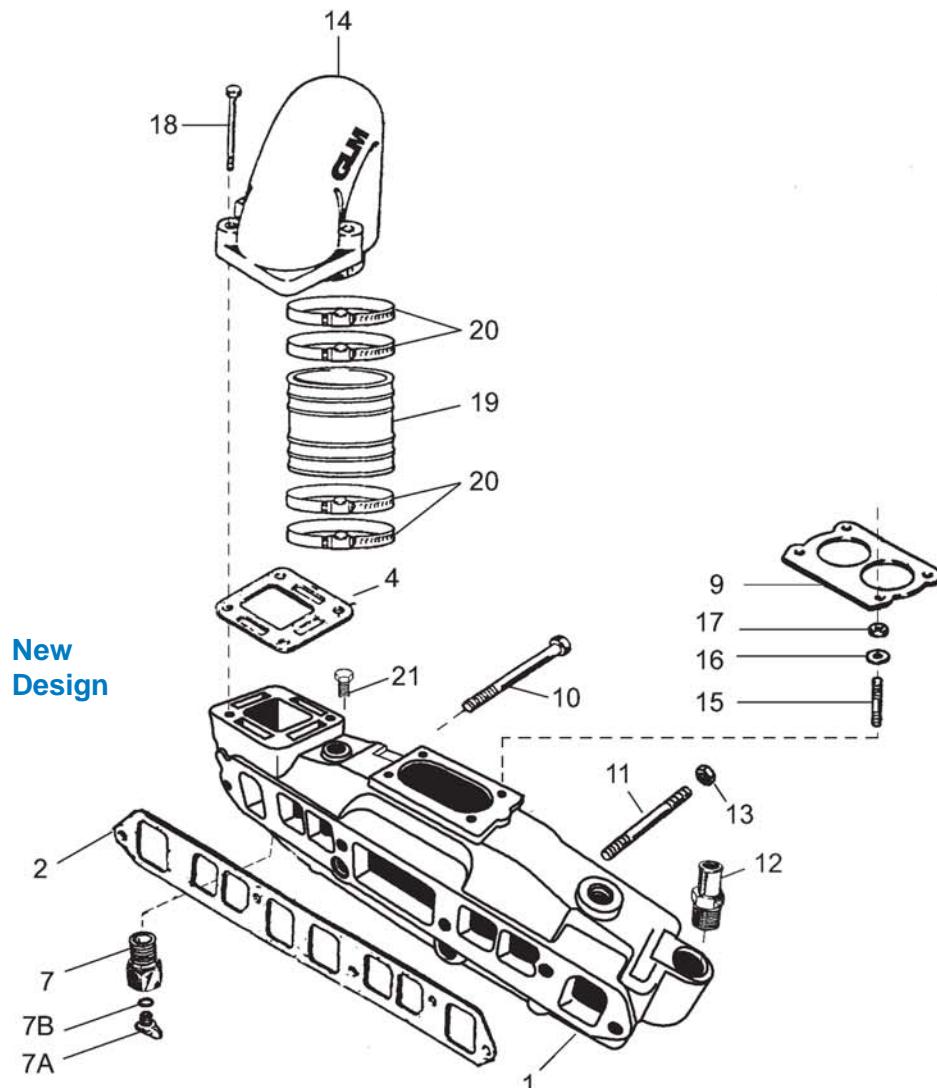
Mercruiser

MODEL 120/140 - INLINE 4, 153/181 CID, 4-CYL. (1982-95)

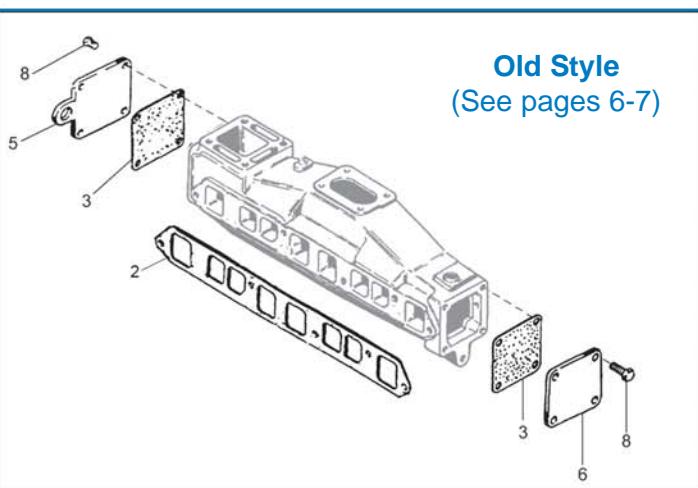
Ref No.	GLM No.	OEM No.	Description	Qty.
1	33570	27-96429	Gasket - Exhaust Manifold	1
2	30920	27-807218	Gasket - End Cap	2
3+	31520	27-99777-2	Gasket - Exhaust Manifold to Elbow or Adaptor	2
4	51020	805629A1	End Cap - Exhaust Manifold	1
5	51030	73813A1	End Cap - Exhaust Manifold	1
6	13980	22-862557	Straight Fitting	1
6A	13992	22-806608A02	Drain Plug Kit	1
6B	80140	25-45253	O-Ring	1
7	22443	10-824941	Screw - End Cap to Exhaust Manifold	8
8	32180	27-807982-1	Gasket - Carburetor Base (Mercab.)	1
8	31660	27-64692	Gasket - Carburetor Base (Rochest.)	1
9	21745	10-53728	Screw (New Design)	3
10*	22445	10-66863-1	Screw	2
11+	22484	16-56826	Stud	4
12+	21892	22-41622	Plug - Exhaust Elbow	4
13+	21248	11-46335	Flange Serrated Nut	4
14	22482	16-70236	Stud - Carburetor	4
15	21664	12-20084	Washer - Carburetor	4
16	19354	11-862902	Lock Nut Carburetor	4
17	51160	12076A2	Exhaust Elbow Assembly	1
18*	89120	32-44348001	Exhaust Bellow - Exhaust Elbow 4" (use with 1-piece Exhaust Elbow)	1
19*	01100	54-815504372	Clamp - Bellow 4"	1
20+	22446	10-72094	Screw - Exhaust Elbow	2
21+	22447	10-34354	Screw - Exhaust Elbow	2
22+	21893	22-32802-2	Plug	1
23	21887	22-36382	Plug	1
24	13984	22-866725	Straight Fitting 3/4-14 X 1 (BRASS)	1
25	21493	13-35048	Lockwasher	4
26+	89070	70981A3	Exhaust Bellow (use with 2-piece Exhaust Elbow)	1
27**+	89090	32-90949T	Exhaust Tube	1
28**+	01056	54-815504456	Hose Clamp	3
29+	01100	54-815504372	Hose Clamp	1
30	21675	12-20553	Washer	2
31+	13960	N/A	Elbow Fitting	1
32	51214	860235A03	Exhaust Manifold New Design w/ Moulded End Caps (Exhaust Manifold 51210 Superseeded to 51214. See pages 8-9.)	1
<hr/>				
+ Old Style Option				
* New Style Option				

Mercruiser

MODEL 120/140 - INLINE 4, 153/181 CID, 4-CYL. (1982-95)
MODEL 3.0LX/3.0L - INLINE 4, GM 181 CID, 4-CYL. (1990 & AFTER)



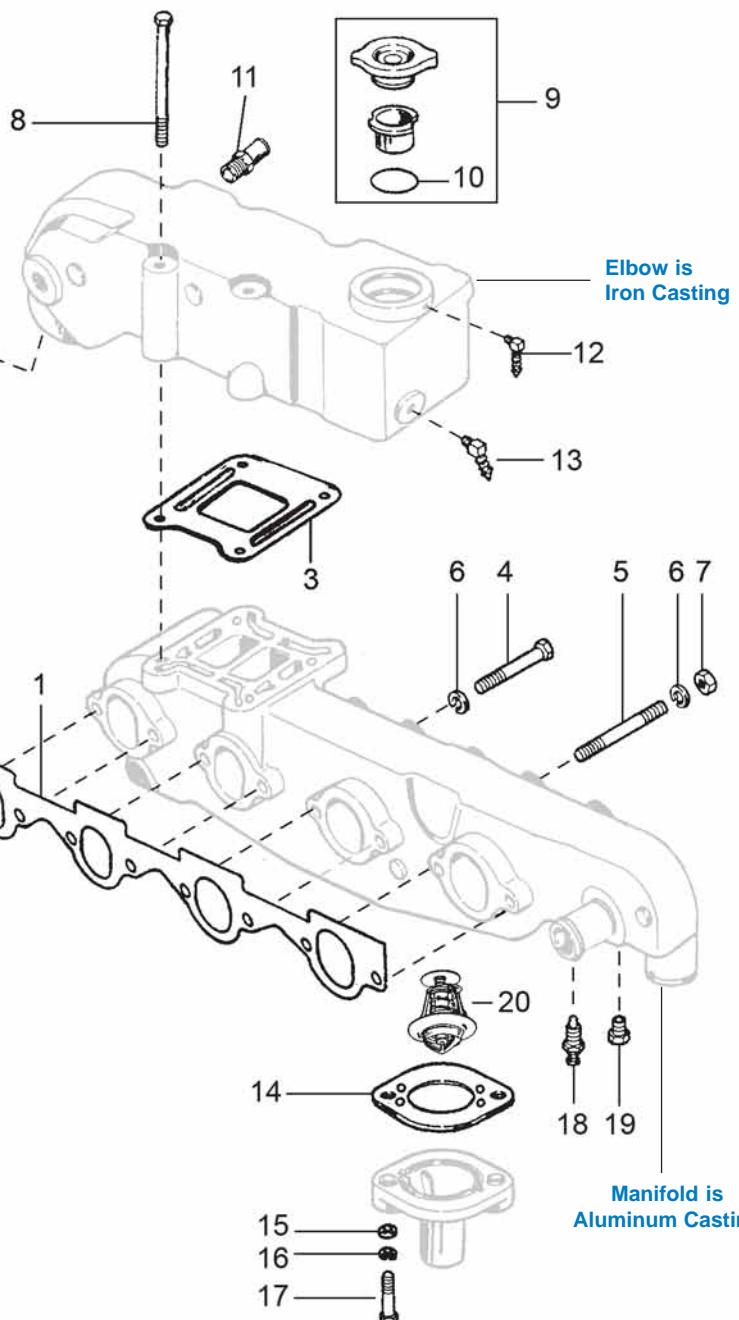
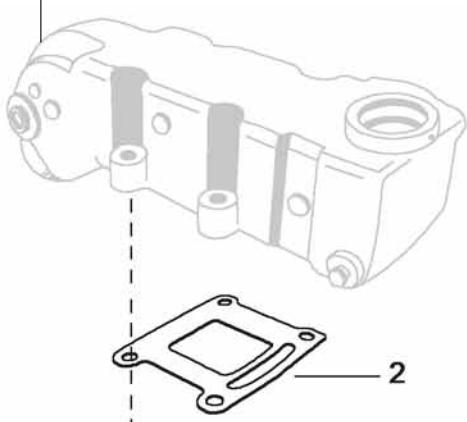
Old Style
(See pages 6-7)



Mercury

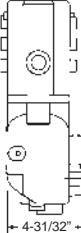
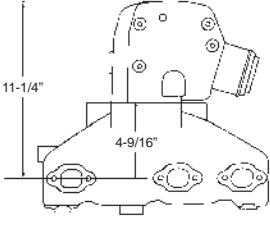
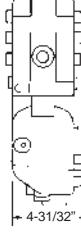
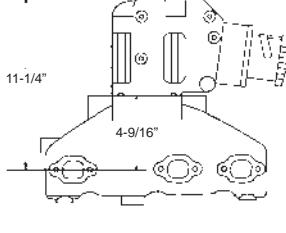
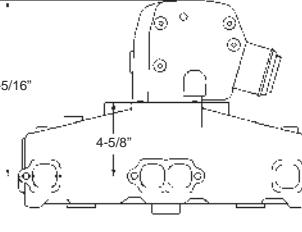
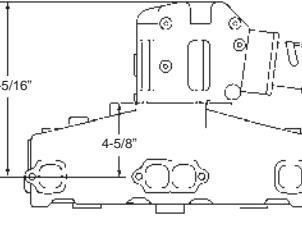
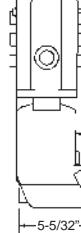
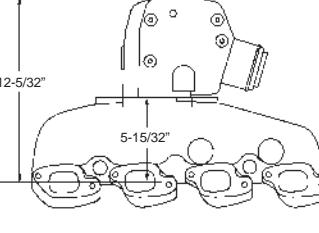
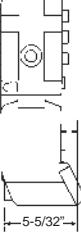
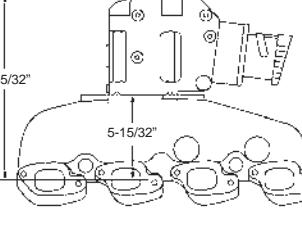
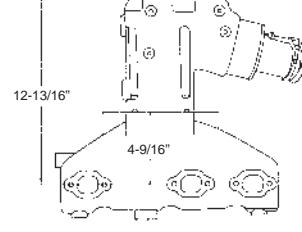
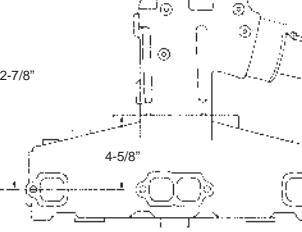
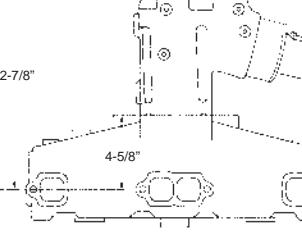
MODEL 165/170/3.7L/180/190/3.7LX/470 MCM/485/488 - INLINE 4, 224 CID, 4-CYL. (1980-89)

Elbow is
Iron Casting



Mercruiser

V6, V8 SMALL BLOCK & V8 BIG BLOCK EXHAUST MANIFOLD DIMENSIONS

3 Inch Riser	4 Inch Riser
V6	
No. 51110 EXHAUST ELBOW OEM: 98504A3	No. 51220 EXHAUST MANIFOLD OEM: 99746A17
 	 
V8 Small Block	
No. 51110 EXHAUST ELBOW OEM: 98504A3	No. 51230 EXHAUST MANIFOLD OEM: 860246A10
 	 
V8 Big Block	
No. 51110 EXHAUST ELBOW OEM: 98504A3	No. 51240 EXHAUST MANIFOLD OEM: 807078T08
 	 
V6 - Dry Joint Replacement	
No. 51148 EXHAUST ELBOW OEM: N/A	No. 51220 EXHAUST MANIFOLD OEM: 99746A17
 	 
V8 Small Block - Dry Joint Replacement	
No. 51148 EXHAUST ELBOW OEM: N/A	No. 51230 EXHAUST MANIFOLD OEM: 860246A10
 	

Mercruiser

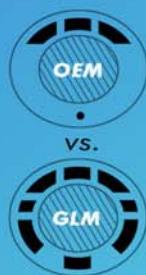
V6 & V8 SMALL BLOCK DRY JOINT REPLACEMENT - FLYER

Dry Joint Replacement

**GLM Products, Inc. now offers
the most cost effective alternative
for replacing your dry joint
exhaust system!**

For just over the cost of 1 dry joint elbow, you can purchase our manifold/elbow set and replace both pieces, eliminating your costly dry joint exhaust system!

Water Exit Comparison



GLM No. 51148 has two extra water ports on each side and a larger bottom port compared to the OEM. This allows for maximum water flow through the riser, significantly reducing the chance of blockage from any debris in the water system.

**Removable
plug for
use with
closed
cooling
systems.**

**3 YR
WARRANTY**
FOR ALL CAST IRON
MANIFOLDS/ELBOWS



Extra Water Ports



V6 & V8 S.B.
No. 51148



**Superior Gasket
Technology
Eliminates
Surface Leaks**

(Temp: 1112° F, Thickness: 1/16",
Compressibility: 15-35%)

Dry Joint Replacement Manifold/Elbow Sets

(1 Manifold, 1 Elbow, All Gaskets & Hardware.)



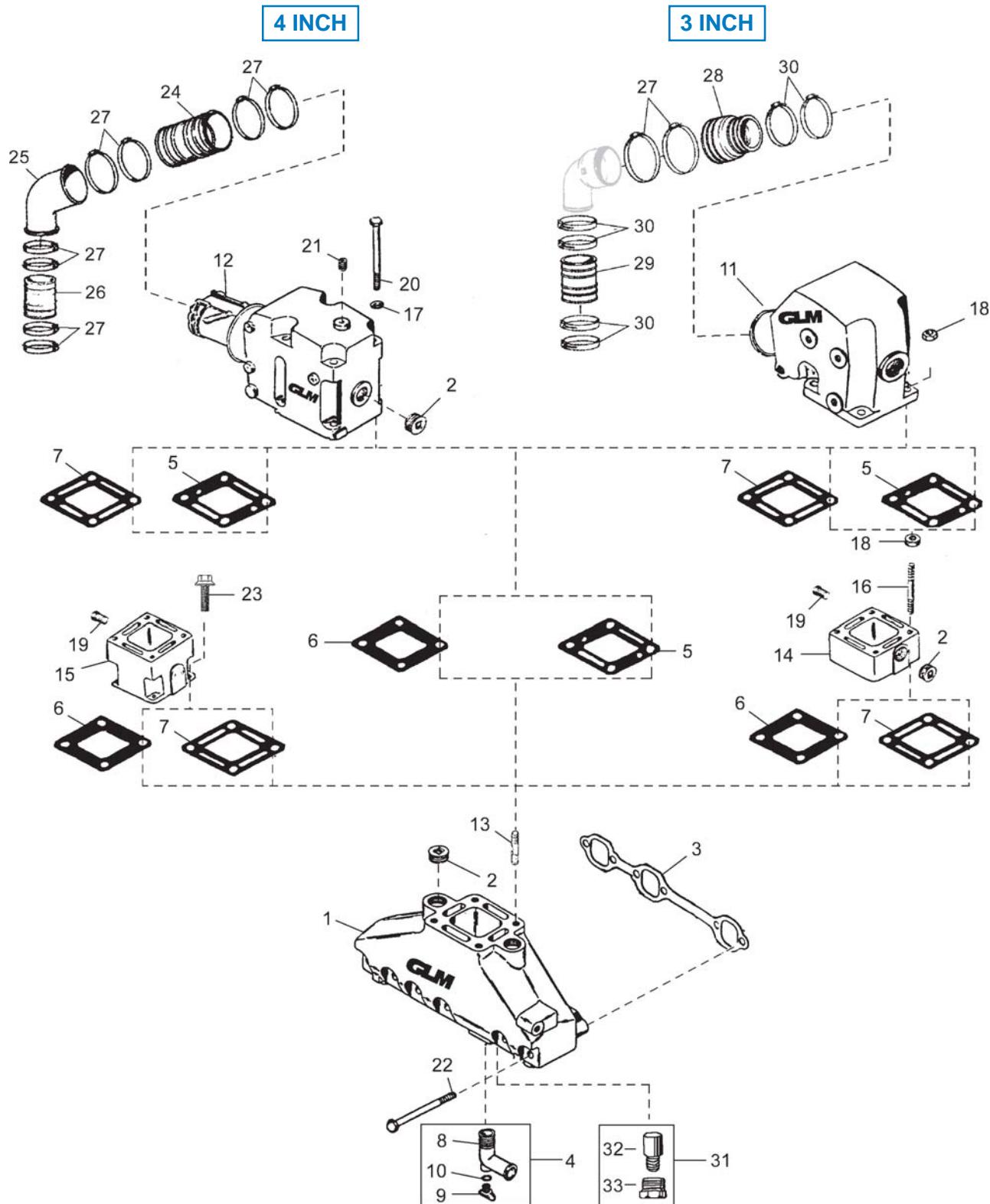
V6
No. 58650



V8 S.B.
No. 58660

Mercruiser

MODEL 175-205 - V6, GM 229/262 CID (1983 up to 0M SN#'s)



Mercruiser

MODEL 175-205 - V6, GM 229/262 CID (1983 up to 0M SN#'s)

Ref No.	GLM No.	OEM No.	Description	Qty.
1	51220	99746A17	Exhaust Manifold Assembly (Iron Casting)	1
1	51225	-	Exhaust Manifold Assembly (Aluminum Black)	1
2*	21892	22-41622	Plug (Steel)	2
2	21896	22-42861-1	Plug (Brass)	2
3**	32170	27-99757	Gasket - Exhaust Manifold	1
4**	13990	22-806926A1	Hose Fitting with Drain Plug Kit Contents Ref. 8, 9, 10	1
5**	30240	27-863724	Gasket - Exhaust Manifold - Raw Water Cooling	1
6	30220	27-860231	Gasket - Exhaust Manifold - Fresh Water Cooling	1
7	32080	27-863726	Gasket - Exhaust Manifold and Spacers	1
8	13991	22-862210A01	90 Degree Hose Fitting	1
9	13992	22-806608A02	Drain Plug Kit Contents Ref. 10	1
10	80140	25-45253	O-Ring	1
11	51110	98504A3	Exhaust Elbow (Iron Casting) 3" 15 Degree	1
11	51115	-	Exhaust Elbow (Aluminum Black) 3" 15 Degree	1
12	51140	807988A2	Exhaust Elbow (Iron Casting) 4" 7 Degree	1
12	51145	-	Exhaust Elbow (Aluminum Black) 4" 7 Degree	1
13	22391	16-49545	Stud (Steel)	4
13	22462	-	Stud (Stainless Steel)	1
14	50300	93320A14	Spacer 3" (Iron Casting)	1
14	50305	-	Spacer 3" (Aluminum Black)	1
15	50600	807477A5	Spacer 6" (Iron Casting)	1
15	50605	-	Spacer 6" (Aluminum Black)	1
16	22481	16-97520	Stud (3/8 X 5) Use with 3" Elbow / 3" Spacer	4
16	22474	16-8M0022137	Stud (3/8 X 9 1/2) Use with 4" Elbow / 3" Spacer	4
17	21494	-	Lockwasher (Stainless Steel) For Aluminum Manifold	4
17*	21493	13-35048	Lockwasher For Cast Iron Manifold	4
18	21248	11-46335	Nut Flange Serrated Nut	4
18	21246	-	Nut (Stainless Steel)	4
19	21893	22-32802-2	Plug	1
20*	22381	10-43749	Screw	4
21*	21889	-	Plug (Steel)	1
21+	22379	22-73379	Plug (Brass)	6
22	21745	10-53728	Screw	4
23	22355	10-12244	Screw	2
24	89120	32-44348T	Exhaust Bellow Upper 4" (Fits No. 51140 or No. 51145)	2
25	50750	14478T01	Elbow Tube	2
26	89130	32-14358001	Exhaust Bellow Lower 4" (Fits No. 51140 or No. 51145)	8
27	01100	54-815504372	Hose Clamp	2
28	89070	70981A3	Exhaust Bellow Upper 3" (Fits No 51110 or No. 51115)	2
29	89090	32-90949T	Exhaust Bellow Lower 3" (Fits No. 51110 or No. 51115)	6
30	01056	54-815504456	Hose Clamp	
31***	12691	N/A	Aluminum Pencil Anode Kit (For Aluminum Manifold 51225)	
32	12692	N/A	Aluminum Anode	
33	21895	N/A	Plug	
*	Included with Exhaust Elbow 51140			
+	Included with Exhaust Elbow 51145			
**	Included with Manifold 51220			
***	Recommended for Manifold 51225			

Mercruiser

COMBINATIONS FOR V6, GM 229/262 CID (1983 & UP)

3 Inch Elbow (1986 & Before)

Standard	With 3 inch Spacer	With 6 inch Spacers
Fresh Water Cooling	Fresh Water Cooling	Fresh Water Cooling

4 Inch Elbow (1986 & After)

Standard	With 3 inch Spacers	With 6 inch Spacers
Fresh Water Cooling	Fresh Water Cooling	Fresh Water Cooling

GLM®

Mercruiser

COMPLETE MANIFOLD & CONVERSION KITS - GM V6

No. 58221

WITHOUT SPACER



3 Inch Elbow Kit

No. 58222

WITHOUT SPACER



4 Inch Elbow Kit

No. 58223

WITH 3 INCH SPACER



3 Inch Elbow Kit

No. 58224

WITH 3 INCH SPACER



4 Inch Elbow Kit

No. 58225

WITH 6 INCH SPACER



3 Inch Elbow Kit

No. 58226

WITH 6 INCH SPACER



4 Inch Elbow Kit

Dry Joint Replacement Manifold/Elbow Set

No. 58650

WITHOUT SPACER

V6



NEW

Conversion Kits

No. 58992

CAST IRON

Single-Piece Manifolds to Center Rise Manifolds



No. 59992

ALUMINUM

Single-Piece Manifolds to Center Rise Manifolds

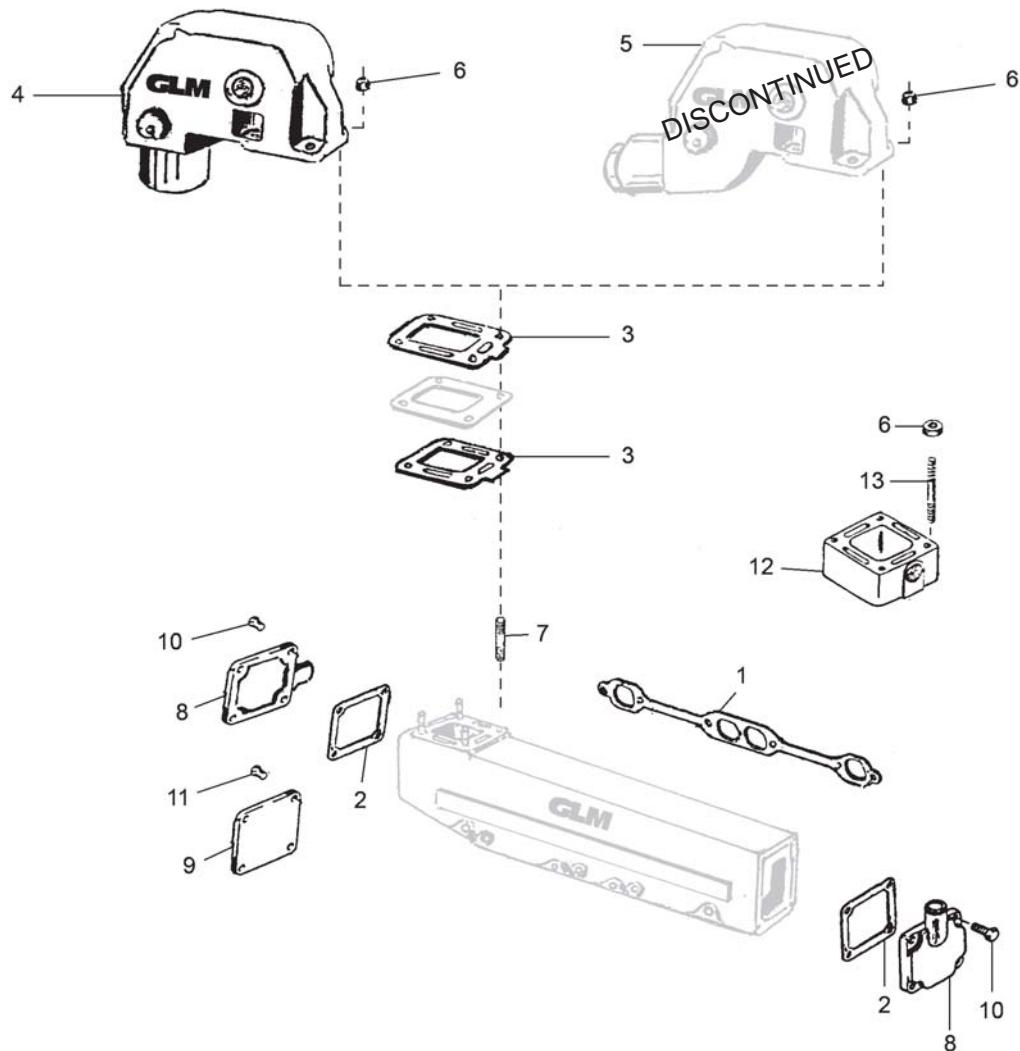


* Does NOT contain original exhaust tube for Y-pipe. Re-use original.
V6 4.3L GM 262 CID w/ Raw Water Cooling (1996-2000)

* Does NOT contain original exhaust tube for Y-pipe. Re-use original.
V6 4.3L GM 262 CID w/ Raw Water Cooling (1996-2000)

Mercruiser

MODEL 198-898 - GM 305/350 CID V8 S.B. (1977-82)

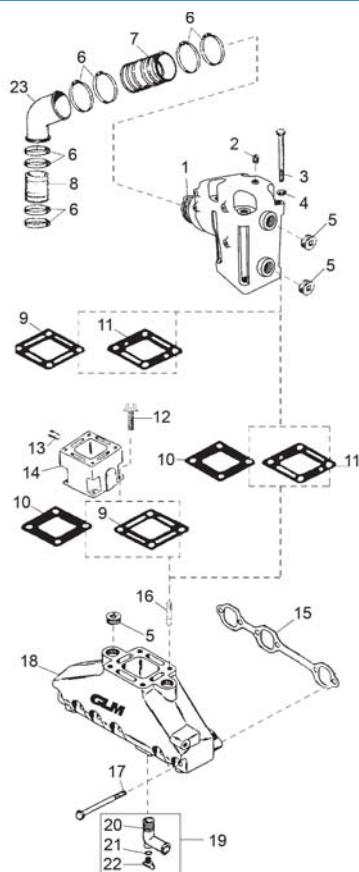


Ref No.	GLM No.	OEM No.	Description	Qty.
1	31100	27-33395	Gasket-Exhaust Manifold	1
2	31490	27-48043-1	Gasket-End Cap	2
3	31520	27-99777-2	Gasket-Exhaust Elbow	2
4	51120	76351A04	Exhaust Elbow Assembly 3" 90 Degree Angle	1
5	51190	76771A2	Exhaust Elbow Assembly 3" 0 Degree Angle - DISCONTINUED (Limited Stock)	1
6	21248	11-49838	Flange Serrated Nut	4
7	22391	16-49545	Stud	4
8	51010	60252A2	End Cap-Exhaust Manifold	2
9	51030	73813A1	End Cap-Exhaust Manifold	1
10	21756	10-37562	Screw-End Cap	8
11	22443	10-824941	Screw-End Cap	4
12	50330	61851A2	Spacer 3"	1
13	22481	16-97520	Stud	4

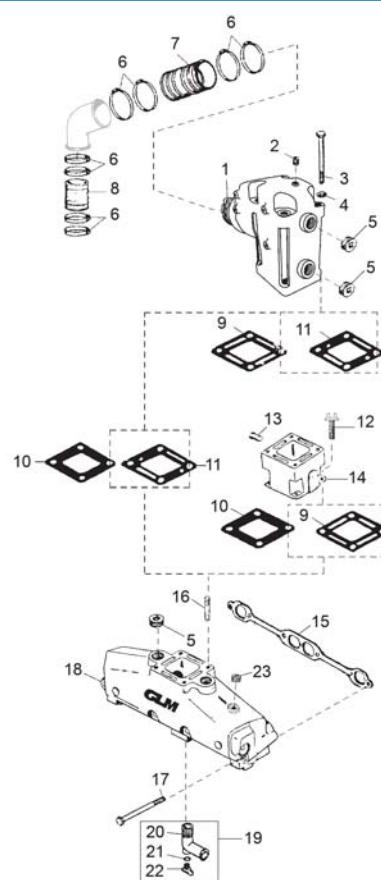
Mercruiser

GM V6 & V8 S.B. DRY JOINT REPLACEMENT

V6



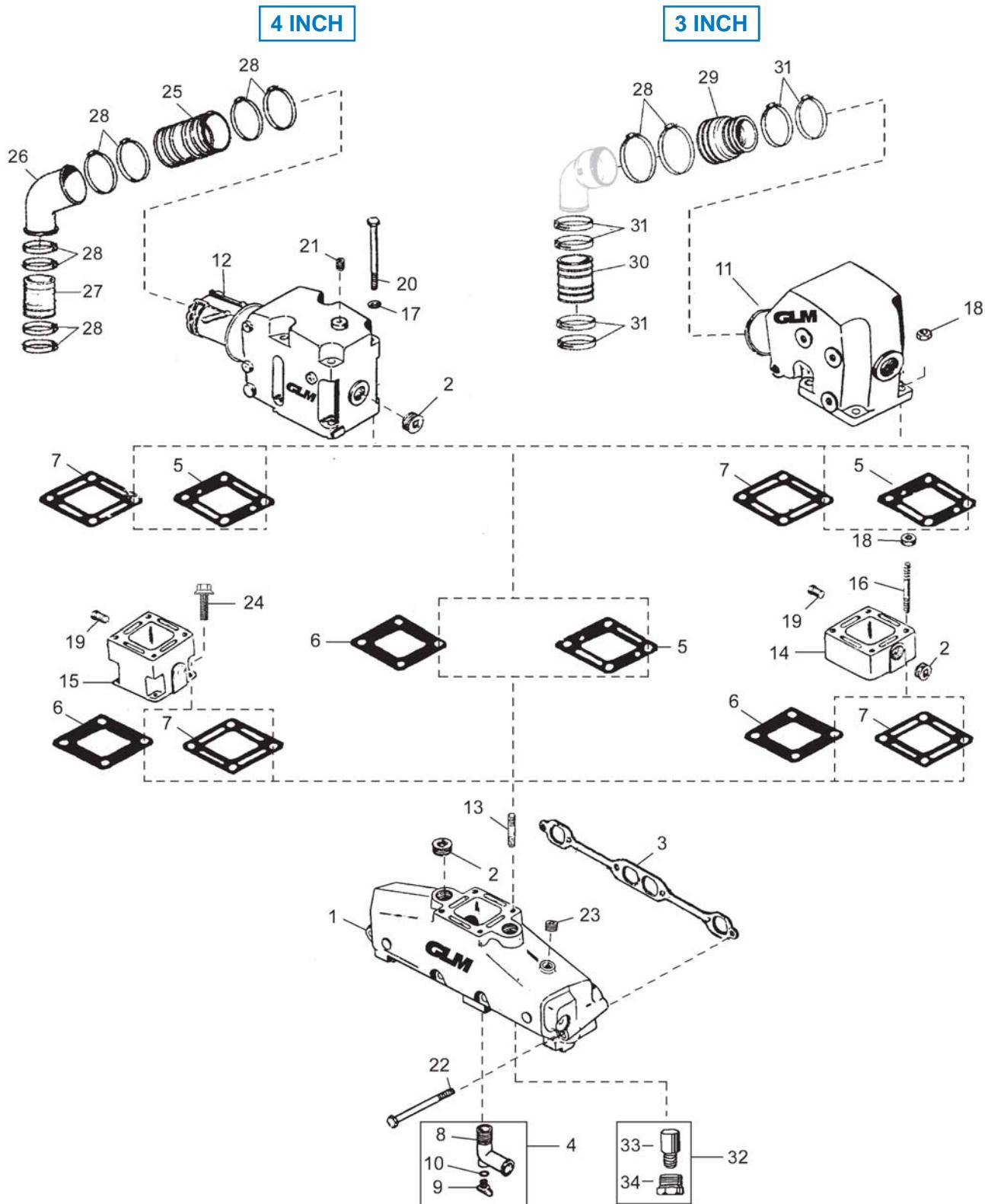
V8 S.B.



Ref No.	GLM No.	OEM No.	Description	Qty.	Ref No.	GLM No.	OEM No.	Description	Qty.
1	51148	-	Elbow - Dry Joint	1	1	51148	-	Elbow - Dry Joint	1
2	21889	-	Plug (Steel)	1	2	21889	-	Plug (Steel)	1
3	22398	10-865982057	Screw - Hex Flanged Head	4	3	22398	10-865982057	Screw - Hex Flanged Head	4
4	21493	13-35048	Lockwasher	4	4	21493	13-35048	Lockwasher	4
5	21896	22-42861-1	Plug (Brass)	3	5	21896	22-42861-1	Plug (Brass)	3
6	01100	54-815504372	Hose Clamp	2	6	01100	54-815504372	Hose Clamp	2
7	89120	32-44348T	Exhaust Bellow	2	7	89120	32-44348T	Exhaust Bellow	2
8	89130	32-14358T	Exhaust Bellow	8	8	89130	32-14358T	Exhaust Bellow	8
9	32080	27-863726	Gasket - Manifold / Spacers	1	9	32080	27-863726	Gasket - Manifold / Spacers	1
10	30220	27-860231	Gasket - Manifold (Fresh Water Cooling)	1	10	30220	27-860231	Gasket - Manifold (Fresh Water Cooling)	1
11	30240	27-863724	Gasket - Manifold (Raw Water Cooling)	1	11	30240	27-863724	Gasket - Manifold (Raw Water Cooling)	1
12	22355	10-12244	Screw	2	12	22355	10-12244	Screw	2
13	21893	22-32802-2	Plug	1	13	21893	22-32802-2	Plug	1
14	50600	807477A2	Spacer 6" (Iron Casting)	1	14	50600	807477A2	Spacer 6" (Iron Casting)	1
15	32170	27-99757	Gasket - Exhaust Manifold	1	15	31100	27-33395	Gasket - Exhaust Manifold	1
16	22391	16-49645	Stud (Steel)	4	16	22391	16-49645	Stud (Steel)	4
17	21745	10-53728	Screw	4	17	21745	10-53728	Screw	4
18	51220	99746A17	Exhaust Manifold Assembly	1	18	51230	860246A10	Exhaust Manifold Assembly	1
19	13990	22-806926A1	Hose Fitting w/ Drain Plug Kit	1	19	13990	22-806926A1	Hose Fitting w/ Drain Plug Kit	1
20	13991	22-862210A01	90 Degree Hose Fitting	1	20	13991	22-862210A01	90 Degree Hose Fitting	1
21	80140	25-45253	O-Ring	1	21	80140	25-45253	O-Ring	1
22	13992	22-806608A02	Drain Plug Kit	1	22	13992	22-806608A02	Drain Plug Kit	1
23	50750	14478T01	Elbow Tube	2	23	21899	-	Plug	1

Mercruiser

MODEL 200-320, V8 (S.B.), GM 305/350/377 CID (1983 up to 0M SN#'s)



Mercruiser

MODEL 200-320, V8 (S.B.), GM 305/350/377 CID (1983 up to 0M SN#'s)

Ref No.	GLM No.	OEM No.	Description	Qty.
1	51230	860246Q11	Exhaust Manifold Assembly (Iron Casting)	1
1	51235	-	Exhaust Manifold Assembly (Aluminum Black)	1
2*	21892	22-41622	Plug 3/4-14 (Steel)	2
2	21896	-	Plug 3/4-14 (Brass)	2
3**	31100	27-33395	Gasket - Exhaust Manifold	1
4**	13990	22-806926A1	Hose Fitting with Drain Plug Kit Contents Ref 8, 9, 10	1
5**	30240	27-863724	Gasket - Exhaust Manifold - Raw Water Cooling	1
6	30220	27-860231	Gasket - Exhaust Manifold - Fresh Water Cooling	1
7	32080	27-863726	Gasket - Exhaust Manifold and Spacers	1
8	13991	22-806926	90 Degree Hose Fitting	1
9	13992	22-806608A02	Drain Plug Kit Contents Ref. 10	1
10	80140	25-45253	O-Ring	1
11	51110	98504A3	Exhaust Elbow (Iron Casting) 3" 15 Degree	1
11	51115	-	Exhaust Elbow (Aluminum Black) 3" 15 Degree	1
12	51140	807988A2	Exhaust Elbow (Iron Casting) 4" 7 Degree	1
12	51145	-	Exhaust Elbow (Aluminum Black) 4" 7 Degree	1
13	22391	16-49545	Stud (Steel)	4
13	22462	-	Stud (Stainless Steel)	1
14	50300	807467A3	Spacer 3" (Iron Casting)	1
14	50305	-	Spacer 3" (Aluminum Black)	1
15	50600	807477A2	Spacer 6" (Iron Casting)	1
15	50605	-	Spacer 6" (Aluminum Black)	1
16	22474	16-11375	Stud (3/8 X 9 1/2) Use with 4" Elbow	1
16	22481	16-97520	Stud (3/8 X 5) Use with 3" Elbow	4
17*	21493	13-35048	Lockwasher	4
18	21248	11-46335	Flange Serrated Nut	4
19	21893	22-32802-2	Plug	1
20*	22381	10-43749	Screw Steel Zinc Plated	4
20	22397	10-74727	Screw Stainless Steel (For Aluminum)	4
21*	21889	-	Plug (Steel)	1
21+	22379	22-73379	Plug (Brass)	4
22	21745	10-53728	Screw	1
23**	21899	22-37372	Plug	4
24	22355	10-12244	Screw	2
25	89120	32-44348T	Exhaust Bellow Upper 4" (Fits No. 51140 or No. 51145)	2
26	50760	44267T	Elbow Tube	2
27	89130	32-14358T	Exhaust Bellow Lower 4" (Fits No. 51140 or No. 51145)	8
28	01100	54-815504372	Hose Clamp	2
29	89070	70981A3	Exhaust Bellow Upper 3" (Fits No 51110 or No. 51115)	2
30	89090	32-90949T	Exhaust Bellow Lower 3" (Fits No. 51110 or No. 51115)	6
31	01056	54-815504456	Hose Clamp	
32***	12691	N/A	Aluminum Pencil Anode Kit (For Aluminum Manifold 51235)	
33	12692	N/A	Aluminum Anode	
34	21895	N/A	Plug	
*	Included with Exhaust Elbow 51140			
+	Included with Exhaust Elbow 51145			
**	Included with Manifold 51230			
***	Recommended for Manifold 51235			

Mercruiser

COMBINATIONS FOR V8 (S.B.), GM 305/350/377 CID (1983 & UP)

3 Inch Elbow (1986 & Before)

Standard	With 3 inch Spacer	With 6 inch Spacer
Fresh Water Cooling	Fresh Water Cooling	Fresh Water Cooling
Raw Water Cooling	Raw Water Cooling	Raw Water Cooling

4 Inch Elbow (1986 & After)

Standard	With 3 inch Spacer	With 6 inch Spacer
Fresh Water Cooling	Fresh Water Cooling	Fresh Water Cooling
Raw Water Cooling	Raw Water Cooling	Raw Water Cooling

GLM®

Mercruiser

COMPLETE MANIFOLD & CONVERSION KITS - GM V8 (S.B.)

No. 58231

WITHOUT SPACER



3 Inch Elbow Kit

No. 58232

WITHOUT SPACER



4 Inch Elbow Kit

No. 58233

WITH 3 INCH SPACER



3 Inch Elbow Kit

No. 58234

WITH 3 INCH SPACER



4 Inch Elbow Kit

No. 58235

WITH 6 INCH SPACER



3 Inch Elbow Kit

No. 58236

WITH 6 INCH SPACER



4 Inch Elbow Kit

Dry Joint Replacement Manifold/Elbow Set

No. 58660

WITHOUT SPACER

V8 S.B.



NEW

Conversion Kits

No. 58990

CAST IRON

Log Style Manifolds to Center Rise Manifolds



* Not for use on engines w/ high mounted power steering pumps.
GM 305 & 350 CID with 3" or 4" Y-Pipe

No. 59990

ALUMINUM

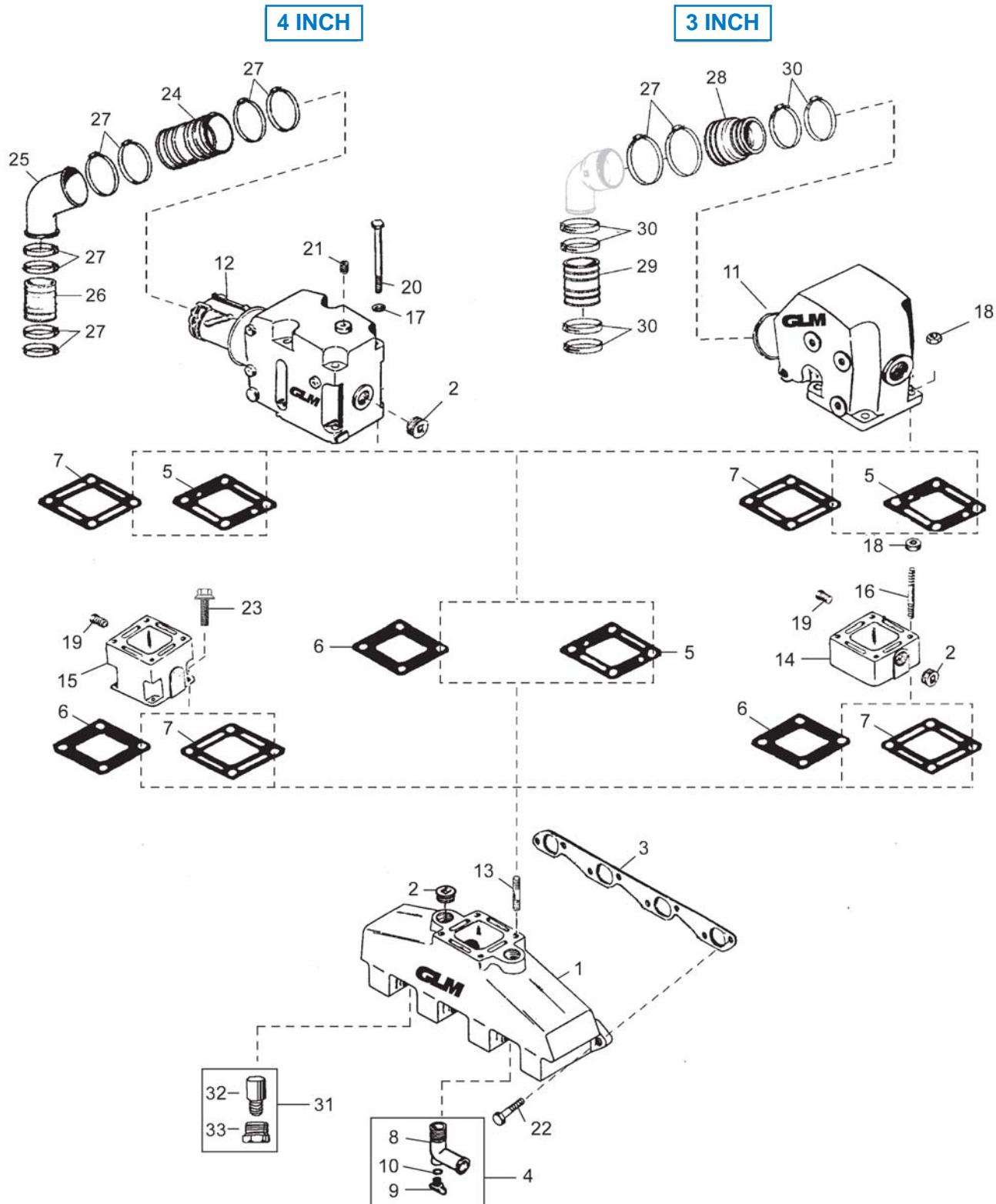
Log Style Manifolds to Center Rise Manifolds



* Not for use on engines w/ high mounted power steering pumps.
GM 305 & 350 CID with 3" or 4" Y-Pipe

Mercruiser

MODEL 330-370, V8 (B.B.), GM 454/502 CID (1981 & Up)



Mercruiser

MODEL 330-370, V8 (B.B.), GM 454/502 CID (1981 & Up)

Ref No.	GLM No.	OEM No.	Description	Qty.
1	51240	807078T08	Exhaust Manifold Assembly (Iron Casting)	1
1	51245	-	Exhaust Manifold Assembly (Aluminum Black)	1
2*	21892	22-41622	Plug (Steel)	2
2	21896	-	Plug (Brass)	2
3**	33760	27-46820	Gasket-Exhaust Manifold	1
4**	13990	22-806926A1	Hose Fitting with Drain Plug Kit. Contents Ref. 8,9,10	1
5**	30240	27-863724	Gasket-Exhaust Manifold-Raw Water Cooling	1
6	30220	27-860231	Gasket-Exhaust Manifold-Fresh Water Cooling	1
7	32080	27-863726	Gasket-Exhaust Manifold and Spacers	1
8	13991	22-806926	90 Degree Hose Fitting	1
9	13992	22-806608A02	Drain Plug Kit. Contents Ref. 10	1
10	80140	25-45253	O-Ring	1
11	51110	98504A3	Exhaust Elbow (Iron Casting) 3", 15 Degree	1
11	51115	-	Exhaust Elbow (Aluminum Black) 3", 15 Degree	1
12	51140	807988A2	Exhaust Elbow (Iron Casting) 4", 7 Degree	1
12	51145	-	Exhaust Elbow (Aluminum Black) 4", 7 Degree	1
13	22391	16-49545	Stud 3/8 X 1 3/4	4
14	50300	807476A3	Spacer 3" (Iron Casting)	1
14	50305	-	Spacer 3" (Aluminum Black)	1
15	50600	807477A2	Spacer 6" (Iron Casting)	1
15	50605	-	Spacer 6" (Aluminum Black)	1
16	22481	16-97520	Stud (3/8 X 5) Use With 3" Elbow	1
16	22474	16-11375	Stud (3/8 X 9 1/2) Use With 4" Elbow	1
17*	21493	13-35048	Lockwasher	4
18	21248	11-46335	Flange Serrated Nut	4
19	21893	22-32802-2	Plug	4
20	22381	10-43749	Screw - Steel Zinc Plated	4
20	22397	10-74727	Screw - Stainless Steel (For Aluminum)	4
21*	21889	-	Plug (Steel)	1
21+	22379	22-73379	Plug (Brass)	8
22	21755	10-37612	Screw	4
23	22355	10-12244	Screw	2
24	89120	32-44348T	Exhaust Bellow Upper 4" (Fits No. 51140 or No. 51145)	2
25	50760	44267T	Elbow Tube	2
26	89130	32-14358T	Exhaust Bellow Lower 4" (Fits No. 51140 or No. 51145)	8
27	01100	54-815504372	Hose Clamp	2
28	89070	70981A3	Exhaust Bellow Upper 3" (Fits No 51110 or No. 51115)	2
29	89090	32-90949T	Exhaust Bellow Lower 3" (Fits No. 51110 or No. 51115)	6
30	01056	54-815504456	Hose Clamp	
31***	12693	N/A	Aluminum Pencil Anode Kit (For Aluminum Manifold 51245)	
32	12694	N/A	Aluminum Anode	
33	21895	N/A	Plug	
*	Included with Exhaust Elbow 51140			
+	Included with Exhaust Elbow 51145			
**	Included with Manifold 51240			
***	Recommended for Manifold 51245			

Mercruiser

COMBINATIONS FOR V8 (B.B.), GM 454/502 CID (1981 & UP)

3 Inch Elbow (1986 & Before)

Standard	
Fresh Water Cooling	Raw Water Cooling
With 3 inch Spacer	
Fresh Water Cooling	Raw Water Cooling
With 6 inch Spacer	
Fresh Water Cooling	Raw Water Cooling

4 Inch Elbow (1986 & After)

Standard	
Fresh Water Cooling	Raw Water Cooling
With 3 inch Spacer	
Fresh Water Cooling	Raw Water Cooling
With 6 inch Spacer	
Fresh Water Cooling	Raw Water Cooling

GLM®

Mercruiser

COMPLETE SETS FOR GM V8 (B.B.) COOLING SYSTEM

3 Inch Elbow Kits	4 Inch Elbow Kits
<p>No. 58241 WITHOUT SPACER</p>  <p>3 Inch Elbow Kit</p>	<p>No. 58242 WITHOUT SPACER</p>  <p>4 Inch Elbow Kit</p>
<p>No. 58243 WITH 3 INCH SPACER</p>  <p>3 Inch Elbow Kit</p>	<p>No. 58244 WITH 3 INCH SPACER</p>  <p>4 Inch Elbow Kit</p>
<p>No. 58245 WITH 6 INCH SPACER</p>  <p>3 Inch Elbow Kit</p>	<p>No. 58246 WITH 6 INCH SPACER</p>  <p>4 Inch Elbow Kit</p>

Mercruiser

ANODES AND ANODE KITS FOR ALUMINUM MANIFOLDS

For V6 & V8 Small Block

No. 12691

ANODE KIT

OEM: N/A

3/4 Inch Length



No. 12692

ANODE

OEM: N/A

3/4 Inch Length



No. 21895

PLUG

OEM: N/A



V8 Big Block

No. 12693

ANODE KIT

OEM: N/A

1-1/2 Inch Length



No. 12694

ANODE

OEM: N/A

1-1/2 Inch Length



No. 21895

PLUG

OEM: N/A



Mercruiser

EXHAUST GASKET SETS

No. 39290

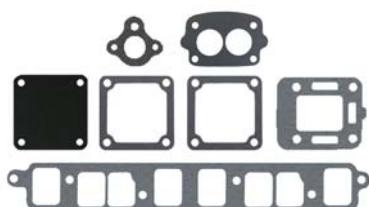
OEM: 27-35898A4



For GM 153 CID (2.5L) 120 HP

No. 39300

OEM: 27-53354A1



For GM 181 CID (3.0L) 140 HP

No. 39320

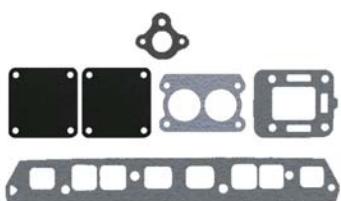
OEM: 27-99777A1



For GM 153/181 CID (2.5L/3.0L)
120/140 HP

No. 39271

OEM: N/A



For GM 181 CID (3.0LX/3.0L) 1990 & Up

No. 39270

OEM: 27-46401A1

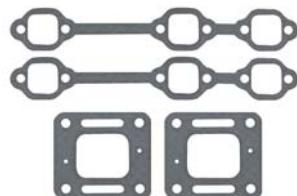


For GM 250/292 CID Inline 6-Cyl.

No. 39870

OEM: N/A

Fits Center Riser Manifold

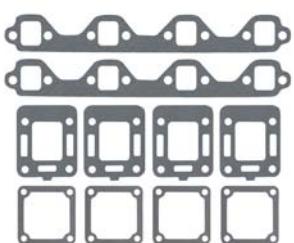


For GM 229/262 CID V6 175-205 HP

No. 39310

OEM: 27-54566A1

Fits Log Style Manifold

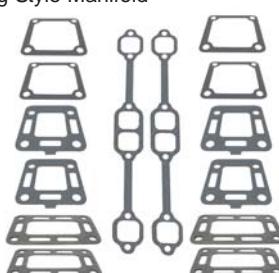


For Ford 302/351 CID (5.0/5.8L)

No. 39280

OEM: 27-33395A2

Fits Log Style Manifold

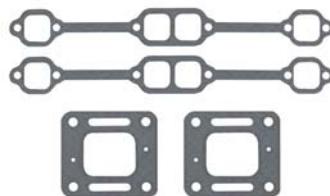


For GM 305/350 CID (5.0/5.0L) 198-270 HP

No. 39880

OEM: N/A

Fits Center Riser Manifold



For GM 305/350 CID (5.0/5.7L)
200-320 HP

No. 39120

OEM: 27-46820A1

Fits Log Style Manifold

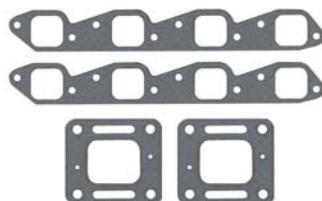


For GM 427/454/482 CID

No. 39890

OEM: N/A

Fits Center Riser Manifold



For GM 454/502 CID (7.4/8.2L)

No. 39272

OEM: N/A

Fits Cast Iron Manifold



For GM 244 CID 4-Cyl.

No. 39273

OEM: N/A

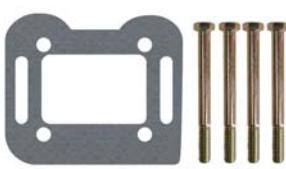
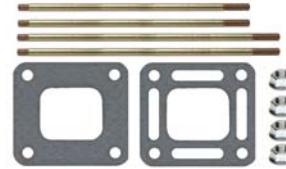
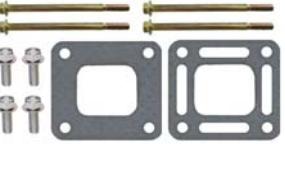
Fits Cast Aluminum Manifold



For GM 244 CID 4-Cyl.

Mercruiser

EXHAUST ELBOW MOUNTING KITS

No. 53300 OEM: N/A 3 Inch Riser without Spacer	No. 53330 OEM: N/A 3 Inch Riser with 3 Inch Spacer	No. 53360 OEM: N/A 3 Inch Riser with 6 Inch Spacer	No. 53100 OEM: N/A
			
Raw Water Cooling	Raw Water Cooling	Raw Water Cooling	Fits 51120, 51190 Riser
No. 53301 OEM: N/A 3 Inch Riser without Spacer	No. 53331 OEM: N/A 3 Inch Riser with 3 Inch Spacer	No. 53361 OEM: N/A 3 Inch Riser with 6 Inch Spacer	No. 53110 OEM: N/A
			
Fresh Water Cooling	Fresh Water Cooling	Fresh Water Cooling	Fits 51130 Riser
No. 53400 OEM: N/A 4 Inch Riser without Spacer	No. 53430 OEM: N/A 4 Inch Riser with 3 Inch Spacer	No. 53460 OEM: N/A 4 Inch Riser with 6 Inch Spacer	No. 53120 OEM: N/A
			
Raw Water Cooling	Raw Water Cooling	Raw Water Cooling	For Aluminum Manifold Fits 51180 Riser
No. 53401 OEM: N/A 4 Inch Riser without Spacer	No. 53431 OEM: N/A 4 Inch Riser with 3 Inch Spacer	No. 53461 OEM: N/A 4 Inch Riser with 6 Inch Spacer	No. 53130 OEM: N/A
			
Fresh Water Cooling	Fresh Water Cooling	Fresh Water Cooling	For Cast Iron Manifold Fits 51170 Riser

Mercruiser

GLM ALUMINUM MANIFOLDS (SPORTY BLACK)

No. 51115

ALUMINUM EXHAUST ELBOW 3"
OEM: N/A



No. 51145

ALUMINUM EXHAUST ELBOW 4"
OEM: N/A



No. 51225

ALUMINUM EXHAUST MANIFOLD
OEM: N/A



For GM V6

No. 51235

ALUMINUM EXHAUST MANIFOLD
OEM: N/A



For GM V8 Small Block

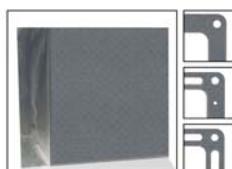
No. 51245

ALUMINUM EXHAUST MANIFOLD
OEM: N/A

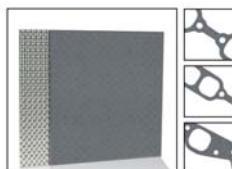


For GM V8 Big Block

GLM HIGH QUALITY ELBOW & EXHAUST MANIFOLD GASKETS



GLM Manifold Gaskets are made from flexible Graphite Composite Reinforced Sheets laminated with Stainless Steel SUS316 (marine grade) foils.



Exhaust Elbow Gaskets have side leakage-proof treatment and sticking proof treatment. Exhaust Manifold Gaskets have tinned tinplate-reinforcement.

Temperature Limit	1112° F
Thickness	1/16 Inch
Density of Sheet	1.309 / cm ³
Compressibility	15-35%
Recovery	20% Min.

No. 32080

OEM: 27-863726



No. 32170

OEM: 27-99757



EXHAUST MANIFOLD

No. 30220

OEM: 27-863725-1



No. 31100

OEM: 27-33395



EXHAUST MANIFOLD

No. 30240

OEM: 27-863724



No. 33760

OEM: 27-46820



EXHAUST MANIFOLD

For GM V8 Big Block

ALUMINUM EXHAUST HARDWARE KITS - ALL STAINLESS STEEL

No. 51228

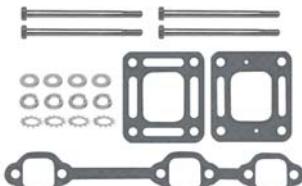
OEM: N/A



For V6 w/ 3" Riser

No. 51229

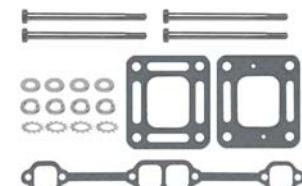
OEM: N/A



For V6 w/ 4" Riser

No. 51239

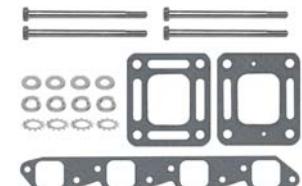
OEM: N/A



For V8 Small Block w/ 4" Riser

No. 51249

OEM: N/A



For V8 Big Block w/ 4" Riser

Mercruiser

ALUMINUM EXHAUST MANIFOLD KITS (SPORTY BLACK)

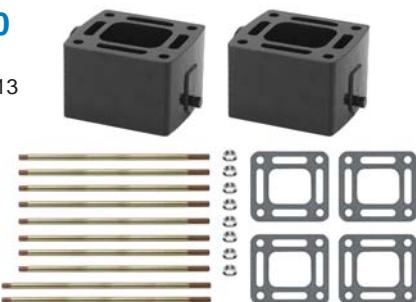
3 Inch Manifold Kits	4 Inch Manifold Kits
<p>No. 59223 OEM: N/A</p>  <p>For GM V6 with Riser fits 3" Hose</p>	<p>No. 59225 OEM: N/A</p>  <p>For GM V6 with Riser fits 4" Hose</p>
<p>No. 59233 OEM: N/A</p>  <p>For GM V8 Small Block fits 3" Hose</p>	<p>No. 59235 OEM: N/A</p>  <p>For GM V8 Small Block fits 4" Hose</p>
<p>No. 59243 OEM: N/A</p>  <p>For GM V8 Big Block fits 3" Hose</p>	<p>No. 59245 OEM: N/A</p>  <p>For GM V8 Big Block fits 4" Hose</p>

Mercruiser

SPACER KITS - CAST IRON

No. 50310

3" RISER KIT
OEM: 93320A13



Fits: MCM V6 & TBI engines w/ 2-piece exhaust manifolds (0M614999 & below), MCM/MIE/Ski V8 (305, 350, 377, 454 & 502 CID) engines w/ cast iron elbows (0M299999 & below), MCM V8 (305 & 350 CID) carb. engines (0M300000-0M599999), MIE & Ski carb. engines (0M300000-0M316999).

No. 50610

6" RISER KIT
OEM: 93322A12



Fits: MCM V6 & TBI engines w/ 2-piece exhaust manifolds (0M614999 & below), MCM/MIE/Ski V8 (305, 350, 377, 454 & 502 CID) engines with cast iron elbows (0M299999 & below), MCM V8 (305, 350 CID) carb. engines (0M300000-0M599999), MIE & Ski carb. engines (0M300000-0M316999).

No. 50320

3" RISER KIT
OEM: 93320A15



Fits: 2001-02 MCM 4.3L MPI (0M300000-0M614999), 2001-02 MCM V8 (305, 350 & 377 CID) MPI engine (0M300000-0M599999), 2001-02 MIE & Ski V8 (350 & 377 CID) MPI engines (0M300000-0M316999). Fits only the above engines with cast iron elbows.

No. 50620

6" RISER KIT
OEM: 93322A10



Fits: 2001-02 MCM 4.3L (0M300000-0M314999), 2001-02 MCM V8 (305, 350 & 377 CID) MPI engine (0M300000-0M599999), 2001-02 MIE & Ski V8 (350 & 377 CID) MPI engines (0M300000-0M316999).

SPACERS

No. 50300

3" SPACER - CAST IRON
OEM: 93320A5



No. 50305

3" SPACER - ALUMINUM BLK
OEM: N/A



No. 50600

6" SPACER - CAST IRON
OEM: 807477A5



No. 50605

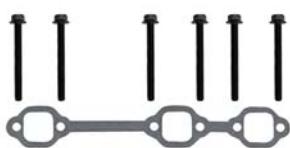
6" SPACER - ALUMINUM BLK
OEM: N/A



EXHAUST MANIFOLD MOUNTING KITS

No. 32175

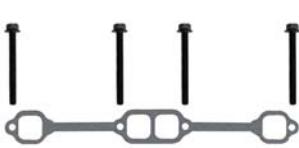
OEM: N/A



For GM V6

No. 31105

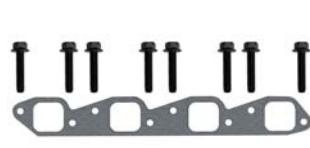
OEM: N/A



For GM V8 Small Block

No. 33765

OEM: N/A



For GM V8 Big Block

No. 33795

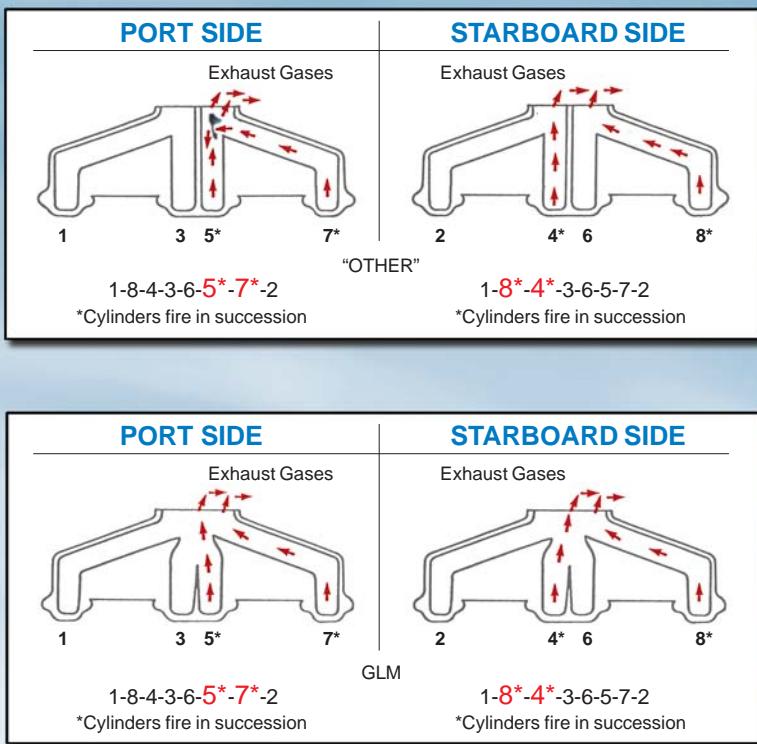
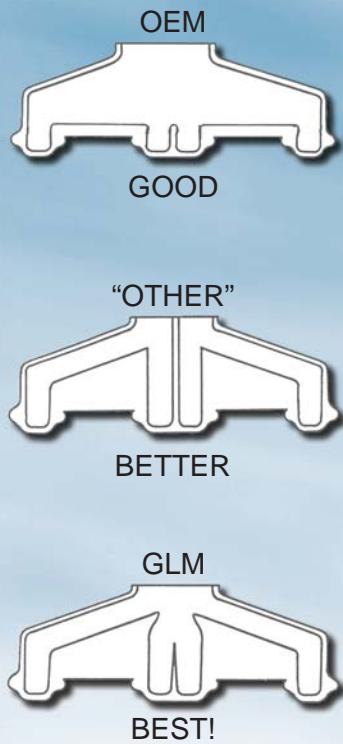
OEM: N/A



For Ford V8

Mercruiser

GM V8 SMALL BLOCK EXHAUST SYSTEM EVALUATION



A high performance aftermarket exhaust manifold can deliver a performance increase over a stock OEM exhaust manifold.

Separating Exhaust Gas Pulses

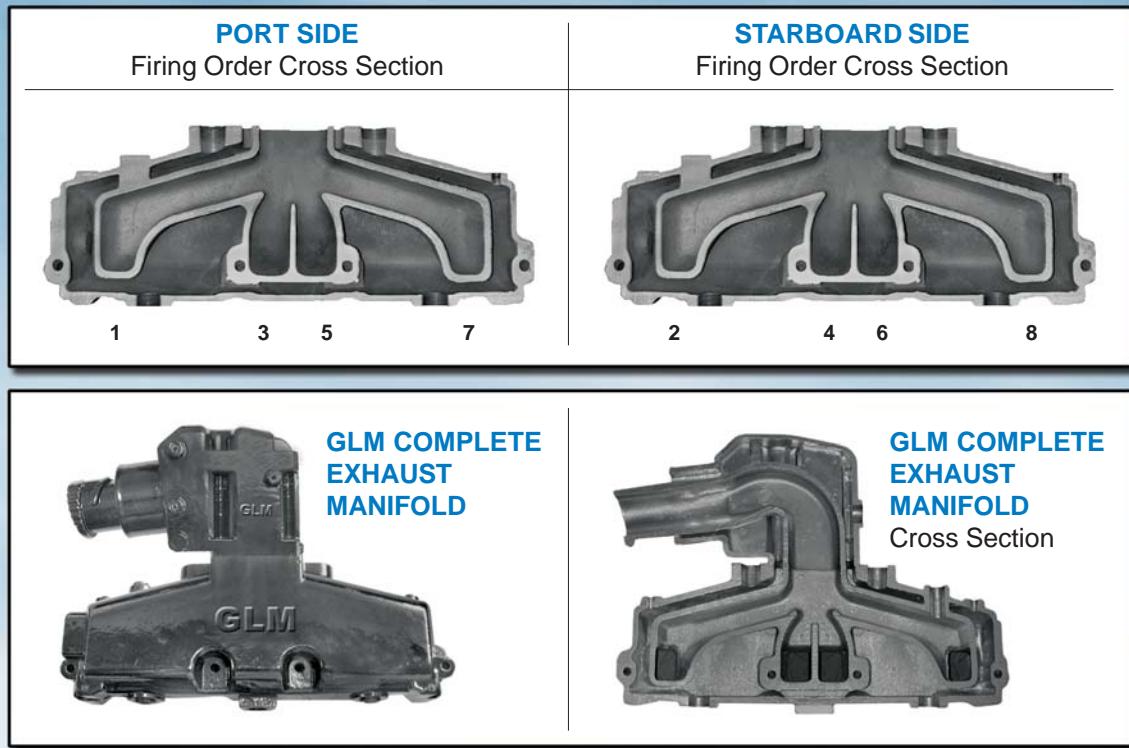
All V8 engines have a firing order that fires two cylinders within 90 degrees of each other on the same bank of cylinders. With a firing order of 1-8-4-3-6-5-7-2, we have #8 and #4 firing on the starboard side of the engine within 90 degrees of crankshaft rotation. On the port side, we have #5 and #7 firing within 90 degrees of crankshaft rotation of each other. Of course, this also means that the exhaust gases for these cylinders immediately discharge into the exhaust manifold one after the other.

At this point, when the two cylinders fill the manifold in immediate succession, the exhaust manifold becomes overwhelmed with exhaust gases, creating excessive back pressure. In fact, excessive backpressure from an overwhelmed exhaust system will not only keep spent gases from leaving the cylinder head exhaust port, but in certain ports, exhaust gases from adjacent cylinders may find their way back in.

The solution is to isolate each *exhaust gas pulse* for as long as possible in the exhaust manifold. There are aftermarket manifold manufacturers that go to great lengths to isolate each exhaust pulse the full length of the manifold, and there are some that barely address the problem at all. Choosing a high performance manifold that isolates each runner is the key to building horsepower with the exhaust system.

Mercruiser

GM V8 SMALL BLOCK EXHAUST SYSTEM EVALUATION



**If properly designed, it can achieve this by two ways:
Separating Exhaust Gas Pulses and Lowering Back Pressure.**

Separating Exhaust Gas Pulses Continued...

Because the starboard side of the engine fires #4 and #8 in succession, there is a cylinder (#6) separating the two. Dividing this manifold into two different sections by grouping #2 and #4 in the front half of the manifold and #6 and #8 into the back half of the manifold works relatively well in isolating the #4 and #8 cylinders. On the port side of the engine we have a problem: The #5 and #7 cylinders that fire in succession are next to each other.

Dividing the port manifold into a front half and a back half groups cylinders #1 and #3 together (which is okay), but groups #5 and #7 together (which is definitely not okay). This is exactly what we are trying to prevent! The correct way to build the port side manifold is to isolate the exhaust gases from cylinders #5 and #7 all the way to the manifold exit.

Lowering Back Pressure

Lowering back pressure in the exhaust manifold is a combination of isolating the exhaust pulses as discussed in the previous section, and simply making the exhaust system larger. Some techniques for *lowering back pressure* include: large passages in the exhaust manifolds, a large exit hole out of the manifold, a large exhaust pipe and large radius curves in the pipe wherever the exhaust gases have to change direction."

Mercruiser

GM V8 BIG BLOCK EXHAUST SYSTEM EVALUATION



Separating Exhaust Gas Pulses

All V8 engines have a firing order that fires two cylinders within 90 degrees of each other on the same bank of cylinders. With a firing order of 1-8-4-3-6-5-7-2 we have #8 and #4 firing on the starboard side of the engine within 90 degrees of crankshaft rotation of each other. Of course, this also means that the exhaust gases for these cylinders immediately discharges into the exhaust manifold one after the other. It is at this point, when the two cylinders fill the manifold in immediate succession, that the exhaust manifold becomes overwhelmed with exhaust gases, creating excessive back pressure. In fact, these two cylinders on each bank firing in succession, not only create excessive back pressure in the manifold, but all the way down the exhaust pipe. Excessive back pressure from an overwhelmed exhaust system will not only keep spent gases from leaving the cylinder head exhaust port, but in certain ports, exhaust gases from adjacent cylinders may find their way back in.

The solution is to isolate each exhaust gas pulse as much as possible for as long as possible in the exhaust manifold. There are aftermarket manifold manufacturers that go to great lengths to isolate each exhaust pulse the full length of the manifold and there are some that barely address the problem at all.

Divided Exhaust Manifolds

Because the starboard side of the engine fires cylinders 4 & 8 in succession, there is a cylinder (#6) separating the two. Dividing this manifold into two different sections by grouping cylinder #2 and #4 in the front half of the manifold, and #6 and #8 into the back half of the manifold with a divider, works relatively well in isolating cylinders #4 and #8. On the port side of the engine, we have a problem. The cylinders that fire in succession, 5&7, are next to each other. Dividing the port manifold into a front half and back half groups cylinder 1&3 together (which is okay) but also groups cylinder 5&7 together (definitely not okay). This is exactly what we are trying to prevent. The correct way to build the port side manifold is to isolate the exhaust gases from cylinders 5&7 all the way to the manifold exit. This can not be done with a simple divider in the middle of the manifold.

Lowering Back Pressure

Lowering back pressure in the exhaust manifold is a combination of isolating the exhaust pulses as discussed in the previous paragraph and simply making the exhaust system larger. Large passages in the exhaust manifolds, a large exit hole out of the manifold, a large exhaust pipe and large radius curves in the pipe wherever the exhaust gases have to change direction are the secrets to lowering back pressure."



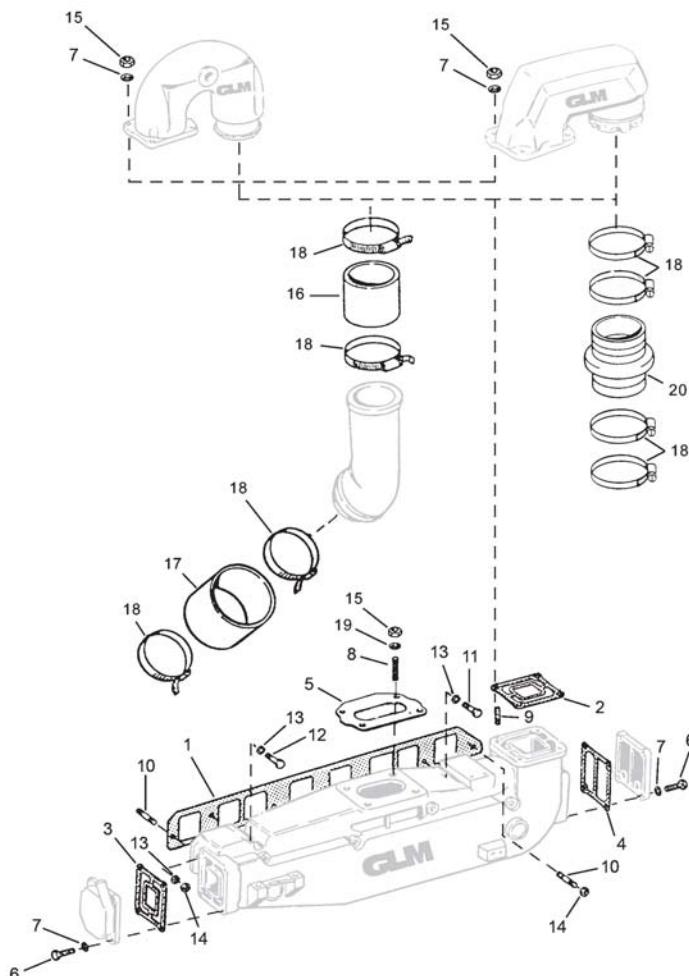
Section 2

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OMC

MODEL 140 - GM 181 CID, 3.0L, 4-CYL. (1973-90)

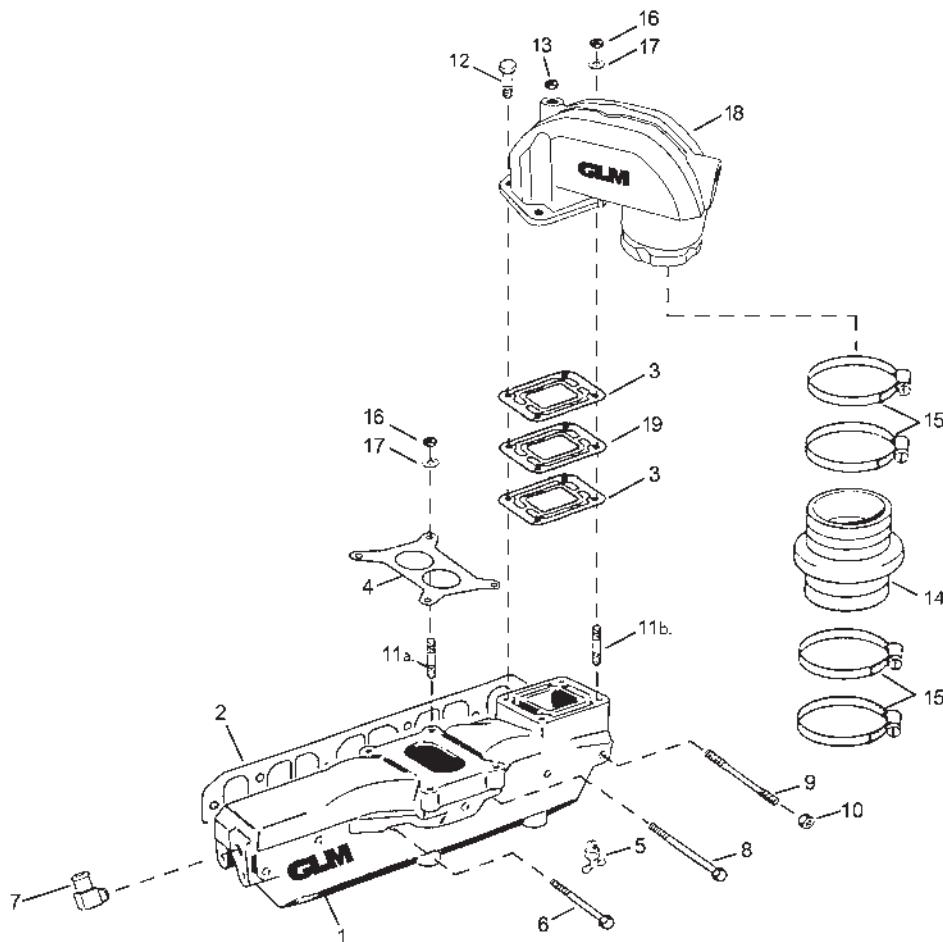


Ref No.	GLM No.	OEM No.	Description	Qty.
1	31570	908079	Gasket - Exhaust Manifold	1
2	33770	3850495	Gasket - Exhaust Elbow	1
3	33330	311121	Gasket - End Cap	1
4	32580	907761	Gasket - End Cap	1
5	34700	315055	Gasket - Carburetor	1
6	22362	317624	Screw - End Cap	1
7	21496	306470	Lockwasher	1
8	22482	3853373	Stud - Carburetor	8
9	22483	310870	Stud - Exhaust Elbow	12
10	22484	3852093	Stud - Exhaust Manifold	4
11	22399	907891	Screw	4
12	22376	201809	Screw	2
13	21493	3852002	Lockwasher	1
14	21160	552938	Nut	3
15	21249	316355	Nut	1
16	89221	909232	Exhaust Hose	1
17	89223	909371	Exhaust Hose	8
18	01090	3852604	Clamp	1
19	21494	-	Washer	1
20	89222	3863450	Exhaust Hose	4

GLM®

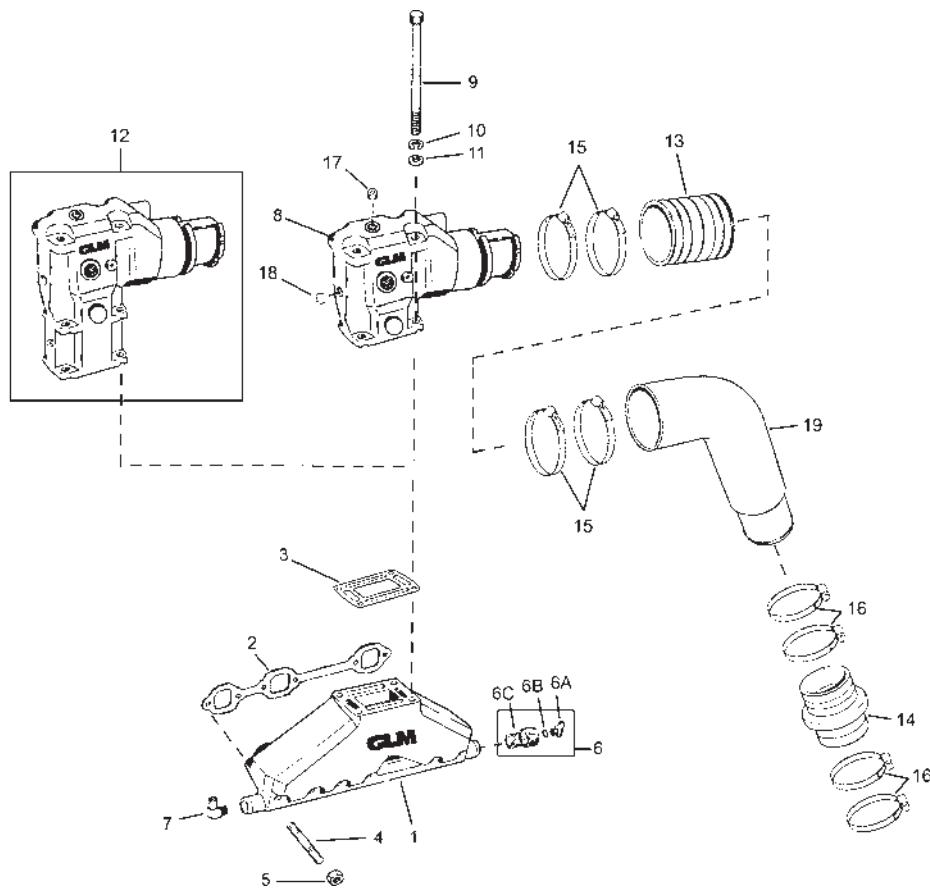
OMC

MODEL 3.0/3.0 H.O. - GM 181 CID, 4-CYL. (1991 & Up)



Ref No.	GLM No.	OEM No.	Description	Qty.
1	51450	3858870	Exhaust Manifold - Cast Iron	1
2	33580	3853256	Gasket - Exhaust Manifold	1
3	33770	3850495	Gasket - Exhaust Elbow	2
4	30382	3853283	Gasket - Carburetor	1
5	13993	82745	Drain Cock	1
6	22315	3853430	Screw	3
7	13970	3852538	Elbow Fitting - Exhaust Manifold	1
8	21757	3853431	Screw	1
9	22488	3853378	Stud - Exhaust Manifold	2
10	21248	3853404	Locknut	2
11a.	22482	3853373	Stud - Carburetor	4
11b.	22482	3853373	Stud - Exhaust Manifold	2
12	21753	3853397	Screw - Exhaust Elbow	2
13	21887	22-36382	Plug	2
14	89222	3863450	Exhaust Hose	1
15	01090	3852604	Clamp	4
16	19354	11-862902	Nut	4
17	21664	12-20084	Washer	4
18	51340	3850799	Exhaust Elbow	1
19	50007	3853628	Restrictor	1

MODEL 4.3L - GM 262 CID, V6 (1989 & UP)



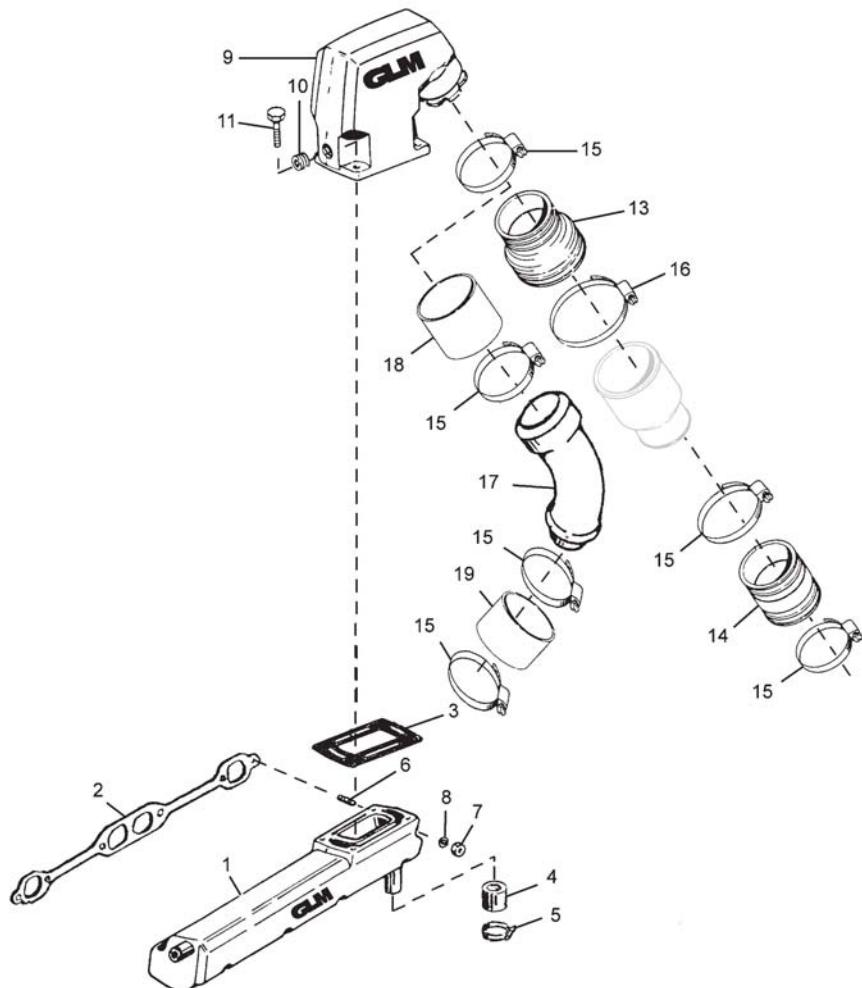
Ref No.	GLM No.	OEM No.	Description	Qty.
1	51480	3857656	Exhaust Manifold Assembly	1
2	32170	3853412	Gasket - Exhaust Manifold	1
3	33810	909786	Gasket - Exhaust Elbow	1
4	22487	3852467	Stud	6
5	21248	3853404	Nut	6
6*	13982	-	Straight Fitting	1
6A*	13992	806608A02	Drain Plug Kit	1
6B*	80140	304174	O-Ring	1
6C*	13983	-	Straight Fitting	1
7*	13970	3852538	Elbow Fitting	1
8	51330	3857944	Exhaust Elbow Assembly	1
9	22316	3852830	Screw	4
10	21493	3852002	Lockwasher	4
11	21675	3852058	Washer	4
12	51337	3862627	Hi-Rise, Single-Piece Exhaust Elbow	1
13	89224	3852696	Exhaust Hose	1
14	89222	3863450	Exhaust Hose	1
15	01100	3853860	Clamp	4
16	01090	3852604	Clamp	4
17	22379	-	Plug	1
18	21896	315713	Plug	1
19	50780	763891	Exhaust Tube	1
19	50790	3853372	Exhaust Tube (1989 only)	1

* Included with Manifold 51480



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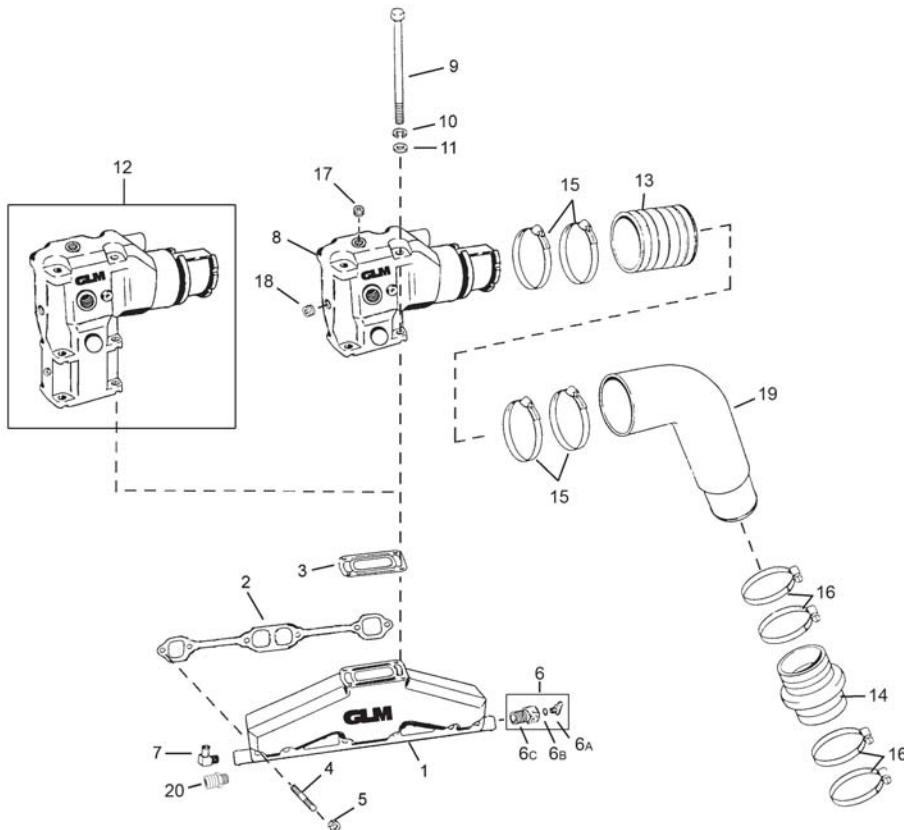
MODEL 800 SERIES - GM 305/350 CID, V8 S.B. (1979-88)



Ref No.	GLM No.	OEM No.	Description	Qty.
1	51410	912441	Exhaust Manifold Assembly - STBD	1
1	51420	912442	Exhaust Manifold Assembly - PORT	1
2	31100	3852468	Gasket - Exhaust Manifold	1
3	33810	909786	Gasket - Exhaust Elbow	1
4	22280	764799	Cap	1
5	21791	3853786	Clamp	1
6	22487	3852467	Stud	6
7	21248	3853404	Nut	6
8	21493	309336	Lockwasher	6
9	51320	909863	Exhaust Elbow Assembly	1
10	21896	315713	Plug	1
11	21753	3853397	Screw	4
13	89220	912374	Exhaust Hose (Cobra)	1
14	89230	3852742	Exhaust Hose (Cobra)	1
15	01090	3852604	Clamp	3&4
16	01200	984387	Clamp	1
17	50730	909609	Elbow Tube - STBD (Stringer Mount)	1
17	50740	909610	Elbow Tube - PORT (Stringer Mount)	1
18	89221	909232	Exhaust Hose	1
19	89223	909371	Exhaust Hose	1

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MODEL 5.0L/5.7L - GM 305/350 CID, V8 S.B. (1989 & Up)

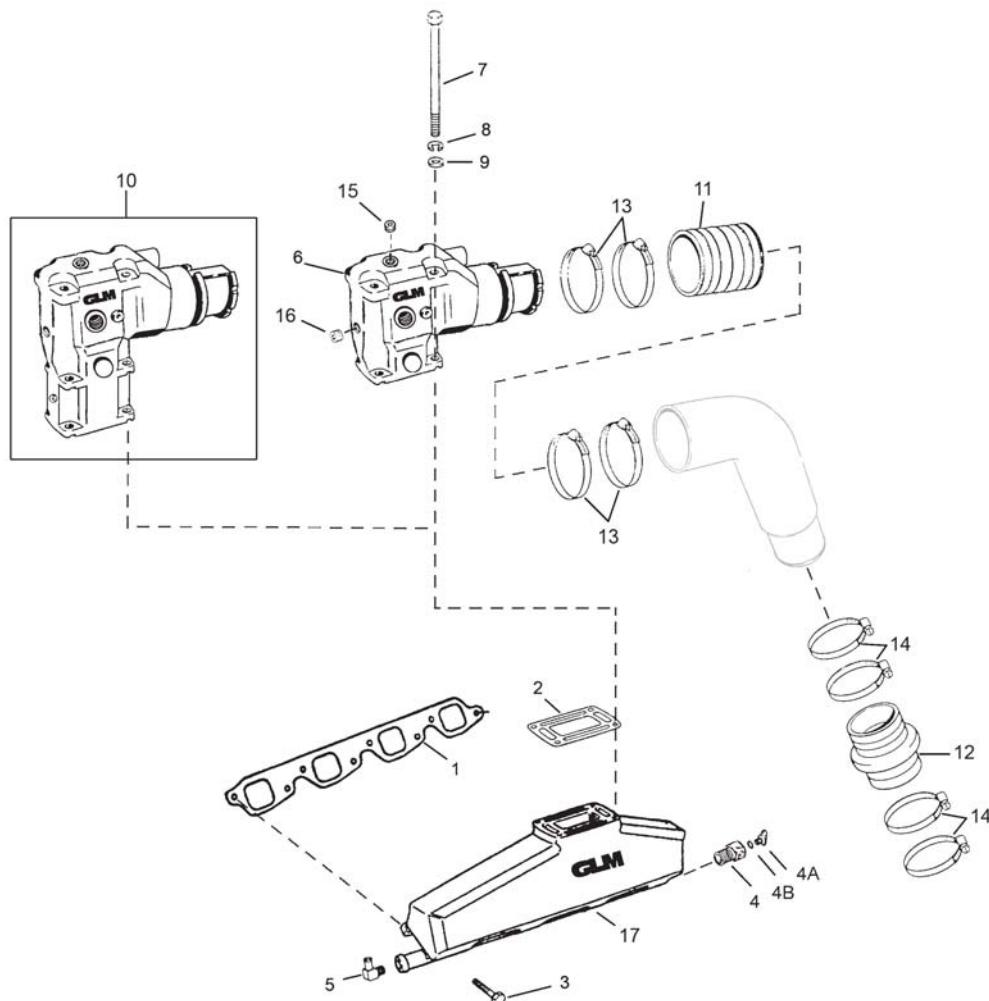


Ref No.	GLM No.	OEM No.	Description	Qty.
1	51430	3857723	Exhaust Manifold Assembly	1
2	31100	3852468	Gasket - Exhaust Manifold	1
3	33810	909786	Gasket - Exhaust Elbow	1
4	22487	3852467	Stud	6
5	21248	3853404	Locknut	6
6*	13982	-	Straight Fitting Kit	1
6A*	13992	806608A02	Drain Plug Kit	1
6B*	80140	304174	O-Ring	1
6C*	13983	-	Reducer	1
7	13970	3852538	Elbow Fitting	1
8	51330	3857944	Exhaust Elbow Assembly	1
9	22316	3852830	Screw	4
10	21493	3852002	Lockwasher	4
11	21675	3852058	Washer	4
12	51337	3862627	Hi-Rise, Single-Piece Exhaust Elbow	1
13	89224	3852696	Exhaust Hose	1
14	89222	3852741	Exhaust Hose	1
15	01100	3853860	Clamp	4
16	01090	3852604	Clamp	4
17	22379	-	Plug	1
18	21896	315713	Plug	1
19	50780	763891	Exhaust Tube	1
20*	13985	-	Straight Fitting	1

* Included with Manifold 51430

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MODEL 7.4/8.2L - V8 B.B., GM 454/502 CID (1991 & UP)



Ref No.	GLM No.	OEM No.	Description	Qty.
1	33760	3852472	Gasket - Exhaust Manifold	1
2	33810	909786	Gasket - Exhaust Elbow	1
3	21755	3853326	Screw 3/8 - 16 x 1 1/4 Flange	8
4	13982	-	Straight Fitting	1
4A	13992	806608A02	Drain Plug Kit	1
4B	80140	304174	O-Ring	1
5	13970	3852538	Elbow Fitting	1
6	51330	3857944	Exhaust Elbow Assembly	1
7	22316	3852830	Screw	4
8	21493	3852002	Lockwasher	4
9	21675	3852058	Washer	4
10	51337	3862627	Hi-Rise Single-Piece Exhaust Elbow	1
11	89224	3852696	Exhaust Hose	1
12	89222	3852741	Exhaust Hose	1
13	01100	3853860	Clamp	4
14	01090	3852604	Clamp	4
15	22379	-	Plug	1
16	21896	315713	Plug	1
17	51500	3861459	Exhaust Manifold	1

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FORD V8 S.B. MANIFOLD CONVERSION KIT - LOG STYLE MANIFOLDS

CONVERT YOUR V8 S.B. LOG STYLE MANIFOLDS TO CENTER RISE MANIFOLDS

NEW

With GLM Conversion Kits

No. 58497 (5.8L) & No. 58498 (5.0L)



GLM's Manifold Conversion Kit is designed to convert all Log Style Exhaust Manifolds to the Center Rise Manifolds on V8 S.B. 5.0L & 5.8L Engines with FORD 302/351 CID Blocks from 1991 & Up.

No. 58497 Kit Contains:

- 1 GLM No. 58490 Complete Set Two-piece Exhaust Manifolds and 4" Risers (includes gaskets)
- 2 GLM No. 89224 Exhaust Hose
- 2 GLM No. 89222 Exhaust Hose
- 2 GLM No. 50700 Exhaust Tube for 5.8L
- 8 GLM No. 01100 Hose Clamps

No. 58498 Kit Contains :

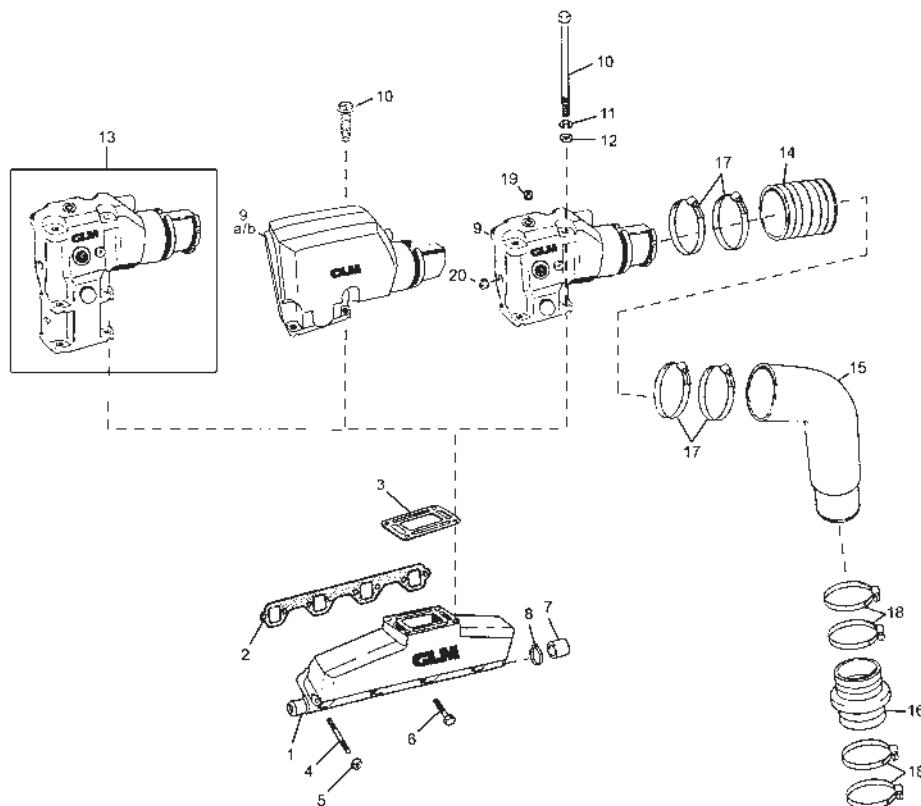
- 1 GLM No. 58490 Complete Set Two-piece Exhaust Manifolds and 4" Risers (includes gaskets)
- 2 GLM No. 89224 Exhaust Hose
- 2 GLM No. 89222 Exhaust Hose
- 2 GLM No. 50800 Exhaust Tube for 5.0L
- 8 GLM No. 01100 Hose Clamps

Comes with All the Hardware to Complete the Conversion Right!

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MODEL 5.0/5.8L/5.8 & 351 KING EFI - V8, FORD 302/351 CID (1991 & UP)



Ref No.	GLM No.	OEM No.	Description	Qty.
1	51490	3852347	Exhaust Manifold Assembly	1
2	33790	3852455	Gasket - Exhaust Manifold	1
3	33810	909786	Gasket - Exhaust Elbow	1
4	22486	3853434	Stud	5
5	21248	3853404	Nut	5
6	21754	3853155	Screw	3
7	22290	3852476	Cap	1
8	01071	912627	Clamp	1
9	51330	3857944	Exhaust Elbow Assembly (1988-96 Carb.)	1
9a	51332	3855271	Exhaust Elbow Assembly - PORT (1993-96 EFI)	1
9b	51334	3855269	Exhaust Elbow Assembly - STBD (1993-96 EFI)	1
10	22316	3852830	Screw (1988-96 Carb.)	4
10	21755	3853326	Screw (1993-96 EFI)	4
11	21493	3852002	Lockwasher	4
12	21675	3852058	Washer	4
13	51337	3862627	Hi-Rise Single-Piece Exhaust Elbow	1
14	89224	3852696	Exhaust Hose (1998-96 Carb.)	1
14	89229	3853608	Exhaust Hose (1993-96 EFI)	1
15	50700	3853386	Exhaust Tube (5.8L)	1
15	50800	3853384	Exhaust Tube (5.0L)	1
16	89222	3863450	Exhaust Hose	1
17	01100	3853860	Clamp	4
18	01090	3852604	Clamp	4
19	22379	-	Plug	1
20	21896	315713	Plug	1

OMC

V6 & V8 SMALL BLOCK EXHAUST MANIFOLD DIMENSIONS

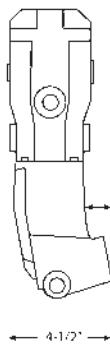
3 Inch Risers

V6

No. 51330

EXHAUST ELBOW

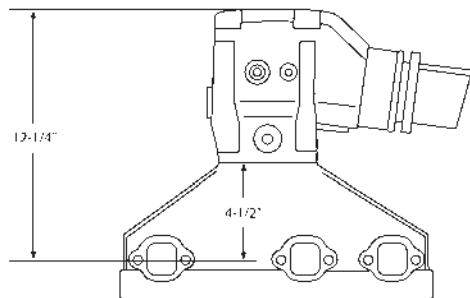
OEM: 3857944



No. 51480

EXHAUST MANIFOLD

OEM: 3857656



No. 51330

EXHAUST ELBOW

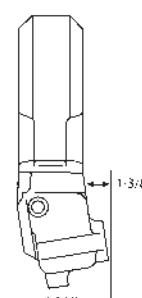
OEM: 3857944

V8 Small Block

No. 51320

EXHAUST ELBOW

OEM: 909863



V8 Small Block

No. 51410

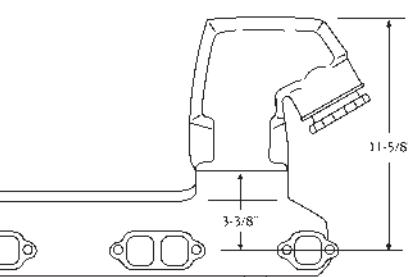
EXHAUST MANIFOLD

OEM: 912441

No. 51430

EXHAUST MANIFOLD

OEM: 3857723



No. 51330

EXHAUST ELBOW

OEM: 3857944

No. 51490

EXHAUST MANIFOLD

OEM: 3852347

No. 51330

EXHAUST ELBOW

OEM: 3857944

No. 51490

EXHAUST MANIFOLD

OEM: 3852347

No. 51330

EXHAUST ELBOW

OEM: 3857944

No. 51490

EXHAUST MANIFOLD

OEM: 3852347

No. 51332

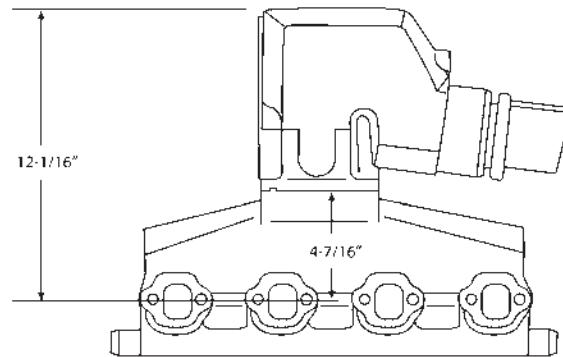
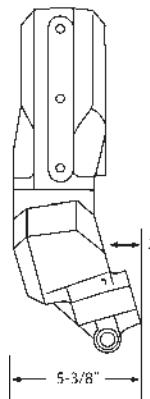
EXHAUST ELBOW (Port)

OEM: 3855271

No. 51334

EXHAUST ELBOW (Starboard)

OEM: 3855269



OMC

COMPLETE EXHAUST MANIFOLD KITS

No. 58480

OEM: N/A



GM V6 262 CID (1991 & Up)

No. 58410

OEM: N/A



GM V8 305/350 CID (1979-89)

No. 58430

OEM: N/A



GM V8 305/350 CID (1990 & Up)

No. 58490

OEM: N/A



FORD V8 302/351 CID (Carb. Engine)

No. 58491

OEM: N/A



FORD V8 302/351 CID (EFI Engine)

No. 58500

OEM: N/A



GM V8 454/502 CID (1991 & Up)

Exhaust Manifold Kits w/ Hi-Rise Single-Piece Elbow

No. 58487

OEM: N/A



GM V6 262 CID (1991 & Up)

NEW

No. 58437

OEM: N/A



GM V8 305/350 CID (1990 & Up)

NEW

No. 58492

OEM: N/A



FORD V8 302/351 CID (Carb. Engine)

NEW

No. 58507

OEM: N/A



GM V8 454/502 CID (1991 & Up)

NEW

OMC

CONVERSION KITS

No. 58994

OEM: N/A

Single-piece Manifolds to
4" Center Rise Manifolds



V6 4.3L GM 262 CID (1986-1990)

No. 58995

OEM: N/A

Single-piece Manifolds to
4" Center Rise Manifolds



V6 4.3L GM 262 CID (1989 Only)

No. 58497

OEM: N/A

Log Style Manifolds to
Center Rise Manifolds

NEW



FORD V8 S.B. (5.8L)

No. 58498

OEM: N/A

Log Style Manifolds to
Center Rise Manifolds

NEW



FORD V8 S.B. (5.0L)

EXHAUST MANIFOLD GASKET & HARDWARE KITS

No. 39780

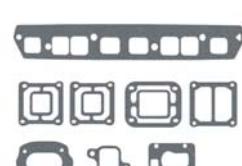
W/OUT
HARDWARE



GM 2.5L 153 CID
(1965-1985)

No. 39790

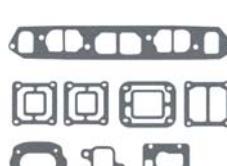
W/OUT
HARDWARE



GM 3.0L 140 HP
(1973-1986)

No. 39770

W/OUT
HARDWARE



GM 2.5L/3.0L
(1985-1988)

No. 53772

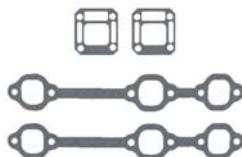
W/ HARDWARE



GM 3.0L 181 CID
(1991 & Up)

No. 39772

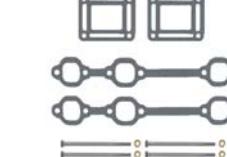
W/OUT
HARDWARE



GM V6 3.8L 229 CID
(1981-1986)

No. 53773

W/ HARDWARE



GM V6 4.3L 262 CID
(1991 & Up)

No. 53910

W/ HARDWARE



For 53910 - Log Style

No. 53911

W/ HARDWARE



No. 39910

W/OUT HARDWARE



GM V8 Small Block

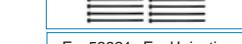
No. 53920

W/ HARDWARE



No. 53921

W/ HARDWARE



No. 39920

W/OUT HARDWARE

FORD V8 302/351 CID

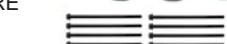
No. 53940

W/ HARDWARE



No. 39940

W/OUT HARDWARE



GM V8 454/502 CID

GLM

Section 3

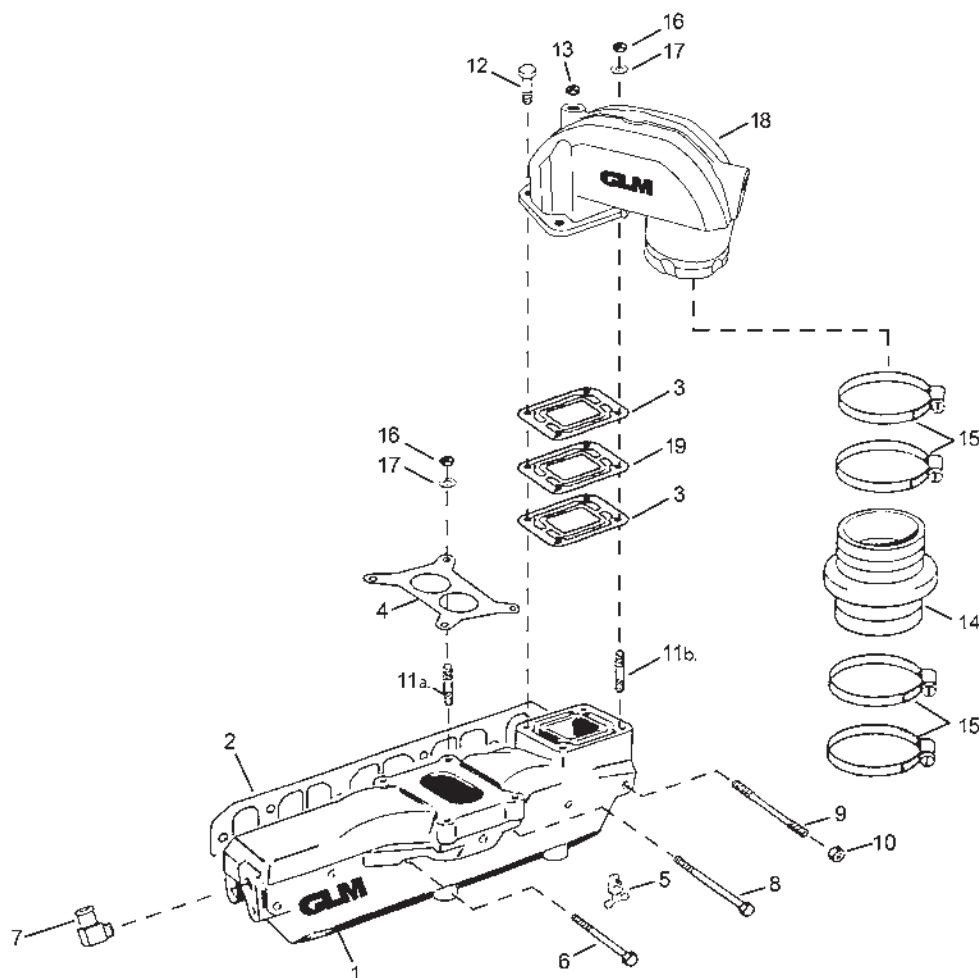
Volvo Penta

Exploded Views, Gaskets & Components

<i>4-Cylinder - 181 CID (1992 & Up)</i>	54
<i>V6 - AQ 175-434 (1993 & Before)</i>	55
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<i>V8 S.B. - 305/350 CID (1993 & Up)</i>	58
<i>V8 S.B. - FORD 302/351 CID (1993 & Up)</i>	59
<i>V8 B.B - 454/502 CID (1992 & Up)</i>	60
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<i>Complete Exhaust Manifold Kits / Hi-Rise Elbow Manifold Kits</i> ...	62
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Volvo Penta

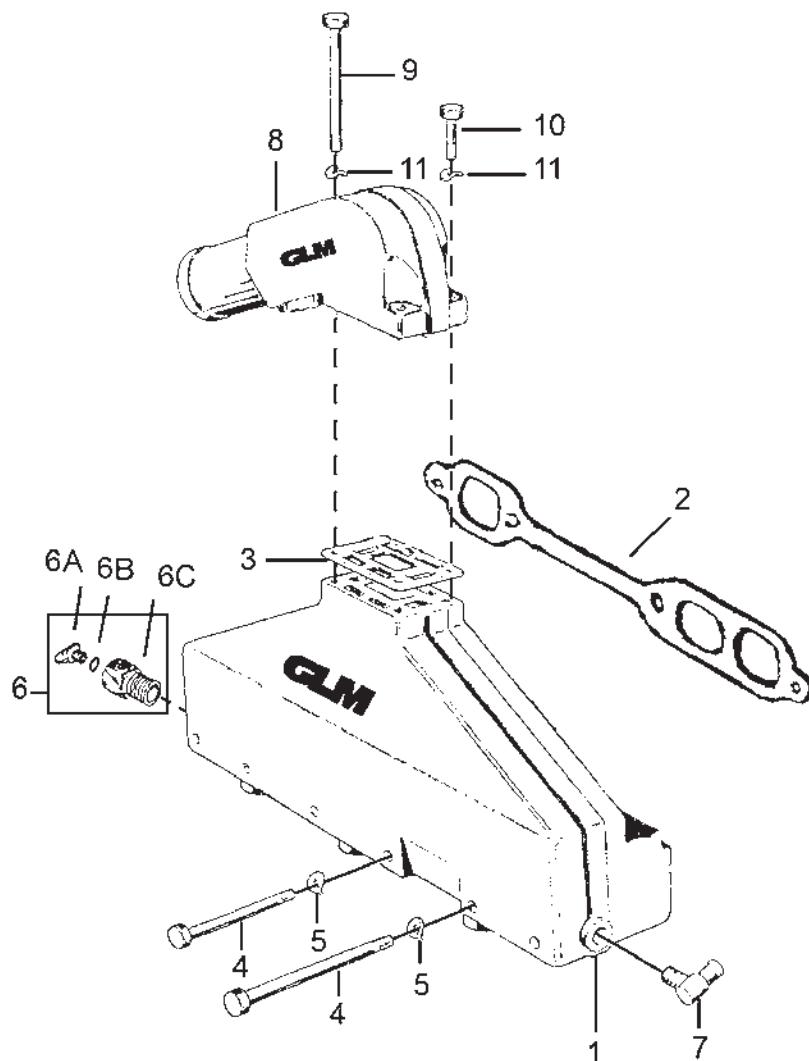
MODEL 3.0GS - 181 CID, 4-CYL. (1992 & Up)



Ref No.	GLM No.	OEM No.	Description	Qty.
1	51450	3858870	Exhaust Manifold - Cast Iron	1
2	33580	3853256	Gasket - Exhaust Manifold	1
3	33770	3850495	Gasket - Exhaust Elbow	1
4	30382	3853283	Gasket - Carburetor	1
5	13993	82745	Drain Cock	1
6	22315	3853430	Screw	3
7	13970	3852538	Elbow Fitting - Exhaust Manifold	1
8	21757	3853431	Screw	1
9	22488	3853378	Stud - Exhaust Manifold	2
10	21248	3853404	Locknut	2
11a.	22482	3853373	Stud - Carburetor	4
11b.	22482	3853373	Stud - Exhaust Manifold	2
12	21753	3853397	Screw - Exhaust Elbow	2
13	21887	22-36382	Plug	2
14	89222	3863450	Exhaust Hose	1
15	01090	3852604	Clamp	4
16	19354	11-862902	Nut	4
17	21664	12-20084	Washer	4
18	51340	3863071	Exhaust Elbow	1
19	50007	3853628	Restrictor	1

Volvo Penta

MODEL AQ175, AQ205, AQ430A/B, AQ432, AQ434 - GM V6 (1993 & BEFORE)

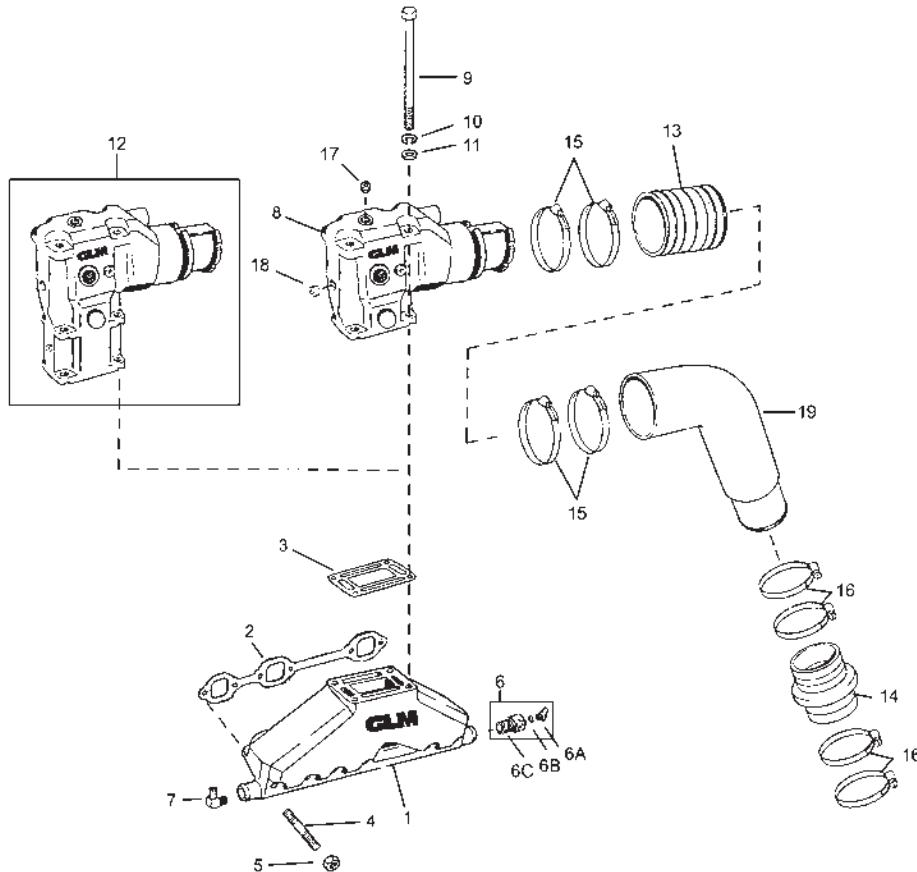


Ref No.	GLM No.	OEM No.	Description	Qty.
1	51640	856894	Exhaust Manifold	1
2	32170	3853412	Gasket - Exhaust Manifold	1
3	35080	856039	Gasket - Exhaust Elbow	1
4	22444	942547	Screw	1
5	21726	942336	Washer	5
6*	13982	192154	Straight Fitting Kit	1
6A*	13992	22-806608A02	Drain Plug Kit	1
6B*	80140	-	O-Ring	1
6C*	13983	-	Reducer	1
7	13970	3852538	Hose Fitting	1
8	51520	857037	Exhaust Elbow	1
9	22353	959796	Screw	2
10	22318	940136	Screw	2
11	21725	941907	Washer	4

* Included with Manifold 51640

Volvo Penta

MODEL 4.3L - GM 262 CID, V6 (1992 & UP)

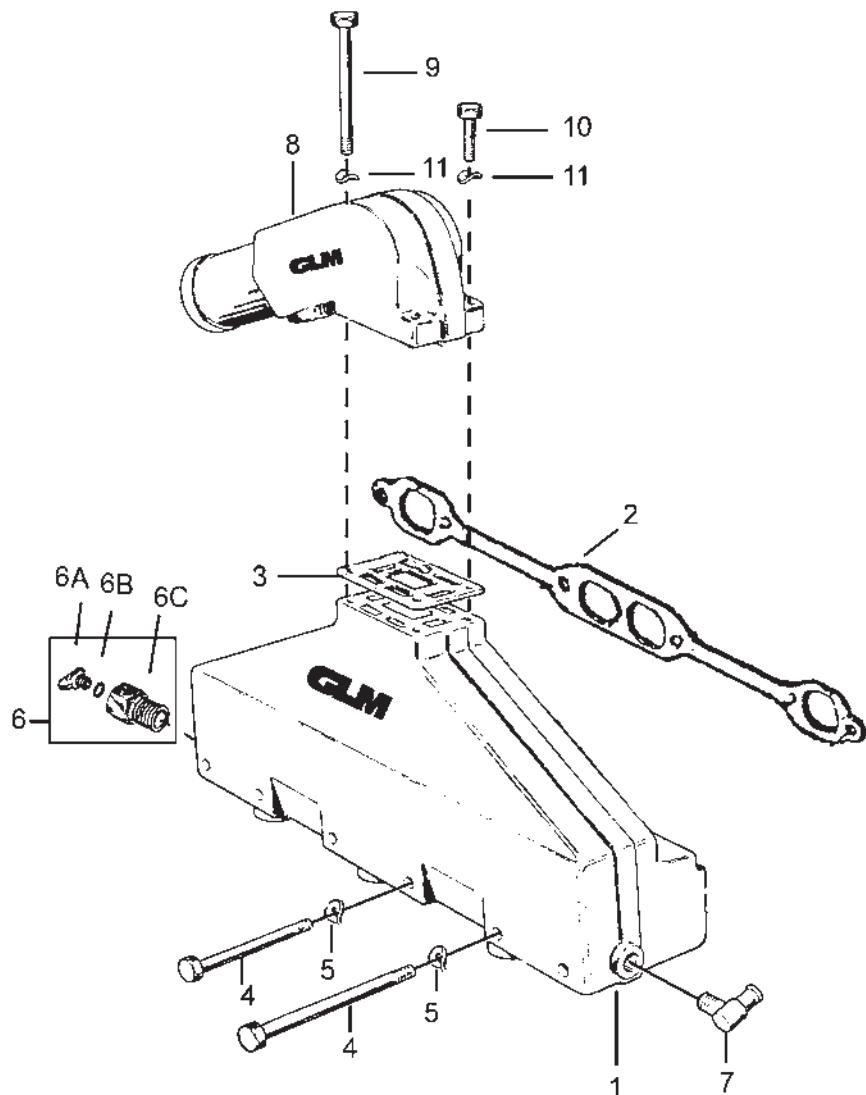


Ref No.	GLM No.	OEM No.	Description	Qty.
1	51480	3857656	Exhaust Manifold Assembly	1
2	32170	3853412	Gasket - Exhaust Manifold	1
3	33810	3863191	Gasket - Exhaust Elbow	1
4	22487	3852467	Stud	6
5	21248	3853404	Nut	6
6	13982	-	Straight Fitting Kit	1
6A*	13992	806608A02	Drain Plug Kit	1
6B*	80140	-	O-Ring	1
6C*	13983	-	Straight Fitting	1
7*	13970	3852538	Elbow Fitting	1
8	51330	3863061	Exhaust Elbow Assembly	1
9	22316	3852830	Screw	4
10	21493	3852002	Lockwasher	4
11	21675	3852058	Washer	4
12	51337	3862627	Hi-Rise Single-Piece Exhaust Elbow	1
13	89224	3852696	Exhaust Hose	1
14	89222	3852741	Exhaust Hose	1
15	01100	3853860	Clamp	4
16	01090	3852604	Clamp	4
17	22379	-	Plug	1
18	21896	3852135	Plug	1
19	50780	3863189	Exhaust Tube	1
19	50790	-	Exhaust Tube (1989 only)	1

* Included with Manifold 51480

Volvo Penta

MODEL 5.0 & 5.7L - GM 305 / 350 CID, V8 S.B. (1993 & BEFORE)

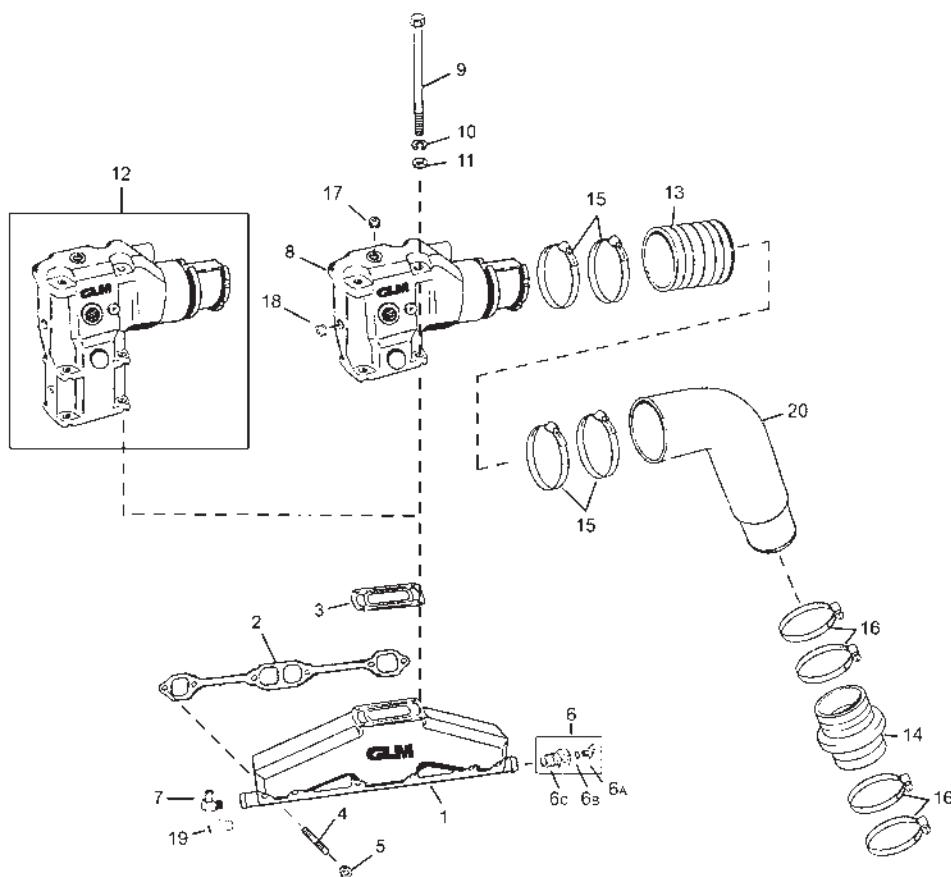


Ref No.	GLM No.	OEM No.	Description	Qty.
1	51630	856883	Exhaust Manifold Assembly	1
2	31100	3852468	Gasket - Exhaust Manifold	1
3	35080	856039	Gasket - Exhaust Elbow	1
4	22444	942547	Screw	1
5	21726	942336	Washer	6
6*	13982	-	Straight Fitting Kit	1
6A*	13992	22-806608A02	Drain Plug Kit	1
6B*	80140	-	O-Ring	1
6C*	13983	-	Reducer	1
7	13970	3852538	Hose Fitting	1
8	51510	856891	Exhaust Elbow Assembly	1
9	22317	959794	Screw	2
10	22318	940186	Screw	2
11	21725	941907	Washer	4

* Included with Manifold 51630

Volvo Penta

MODEL 5.0L/5.7L - GM 305/350 CID, V8 S.B. (1993 & Up)

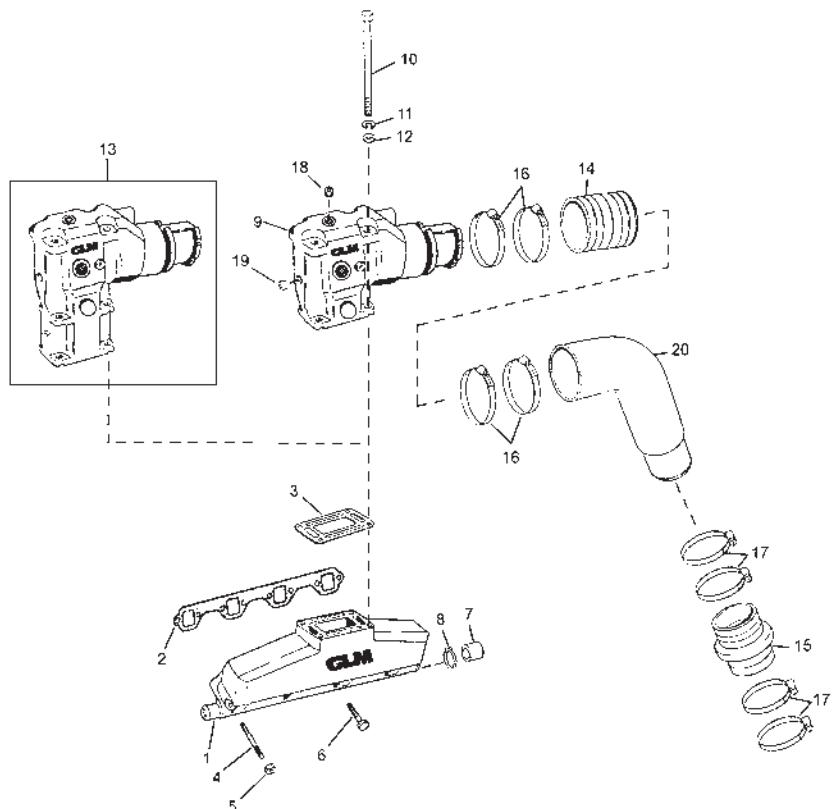


Ref No.	GLM No.	OEM No.	Description	Qty.
1	51430	3857723	Exhaust Manifold Assembly	1
2	31100	3852468	Gasket - Exhaust Manifold	1
3	33810	3863191	Gasket - Exhaust Elbow	1
4	22487	3852467	Stud	6
5	21248	3853404	Nut	6
6*	13982	-	Straight Fitting Kit	1
6A*	13992	806608A02	Drain Plug Kit	1
6B*	80140	-	O-Ring	1
6C*	13983	-	Reducer	1
7	13970	3852538	Elbow Fitting	1
8	51330	3863061	Exhaust Elbow Assembly	1
9	22316	3852830	Screw	4
10	21493	3852002	Lockwasher	4
11	21675	3852058	Washer	4
12	51337	3862627	Hi-Rise Single-Piece Exhaust Elbow	1
13	89224	3852696	Exhaust Hose	1
14	89222	3852741	Exhaust Hose	1
15	01100	3853860	Clamp	4
16	01090	3852604	Clamp	4
17	22379	-	Plug	1
18	21896	3852135	Plug	1
19*	13985	-	Straight Fitting	1
20	50780	3863189	Exhaust Tube	1

* Included with Manifold 51430

Volvo Penta

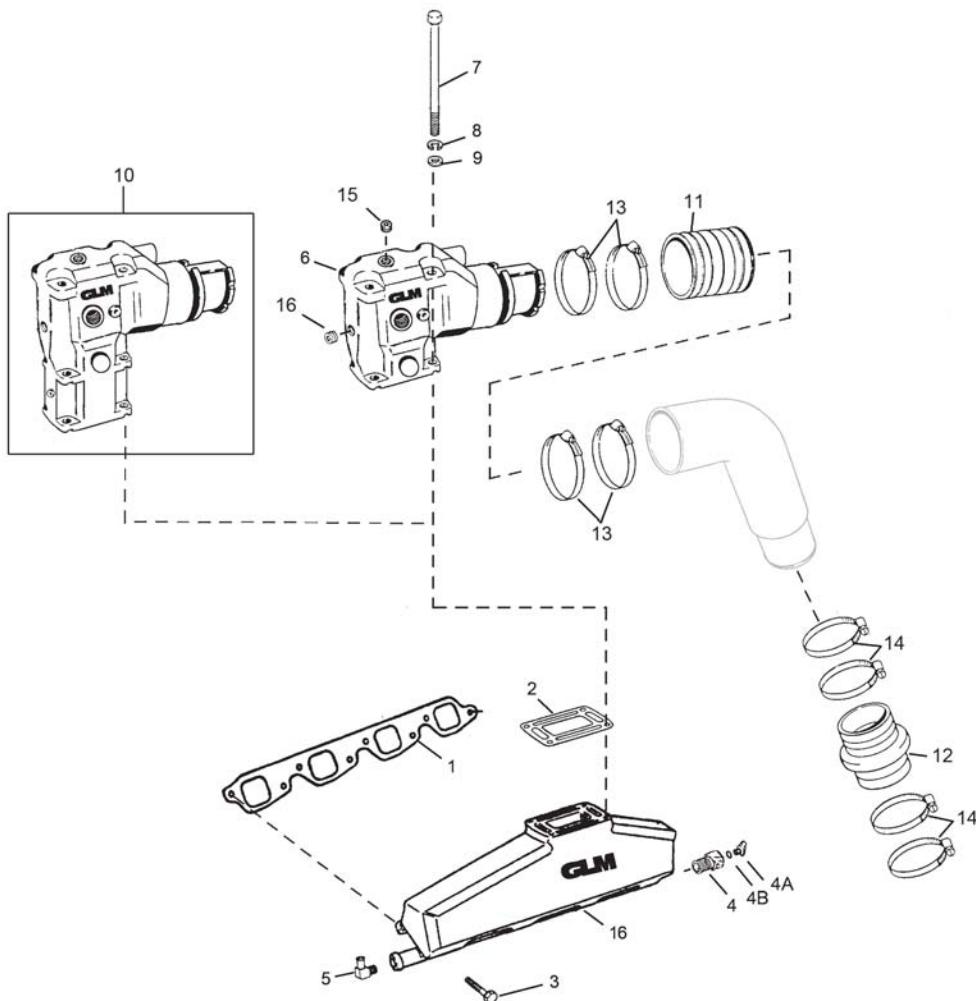
MODEL 5.0/5.8L & Fi/FSi - FORD 302/351 CID V8 S.B. (1993 & UP)



Ref No.	GLM No.	OEM No.	Description	Qty.
1	51490	3582347	Exhaust Manifold Assembly	1
2	33790	3852455	Gasket - Exhaust Manifold	1
3	33810	3863191	Gasket - Exhaust Elbow	1
4	22486	3853434	Stud	5
5	21248	3853404	Nut	5
6	21754	3853155	Screw	3
7	22290	3852476	Cap	1
8	01071	3852602	Clamp	1
9	51330	3863061	Exhaust Elbow Assembly (Carb.)	1
9	51332	3855271	Exhaust Elbow Assembly - PORT (EFI)	1
9	51334	3855269	Exhaust Elbow Assembly - STBD (EFI)	1
10	22316	3852830	Screw	4
11	21493	3852002	Lockwasher	4
12	21675	3852058	Washer	4
13	51337	3862627	Hi-Rise Single-Piece Exhaust Elbow	1
14	89224	3852696	Exhaust Hose for 5.0/5.8 Carb.	1
14	89229	3853608	Exhaust Hose for 5.0/5.8 EFI	1
15	89222	3852741	Exhaust Hose	1
16	01100	3853860	Clamp	4
17	01090	3852604	Clamp	4
18	22379	-	Plug	1
19	21896	3852135	Plug	1
20	50800	3853384	Exhaust Tube for 5.0 Carb.	1
20	50700	3853386	Exhaust Tube for 5.8 Carb.	1
20	N/A	3853609	Exhaust Tube for 5.0 EFI	1
20	N/A	3853615	Exhaust Tube for 5.8 EFI	1

Volvo Penta

MODEL 7.4/8.2L - GM 454/502 CID V8 (1992 & UP)



Ref No.	GLM No.	OEM No.	Description	Qty.
1	33760	3852472	Gasket - Exhaust Manifold	1
2	33810	3863191	Gasket - Exhaust Elbow	1
3	21755	3853326	Screw	8
4	13982	-	Straight Fitting Kit	1
4A	13992	806608A02	Drain Plug Kit	1
4B	80140	-	O-Ring	1
5	13970	3852538	Elbow Fitting	1
6	51330	3863061	Exhaust Elbow Assembly	1
7	22316	3852830	Screw	4
8	21493	3852002	Lockwasher	4
9	21675	3852058	Washer	4
10	51337	3862627	Hi-Rise Single-Piece Exhaust Elbow	1
11	89224	3852696	Exhaust Hose	1
12	89222	3852741	Exhaust Hose	1
13	01100	3853860	Clamp	4
14	01090	3852604	Clamp	4
15	22379	-	Plug	1
16	21896	3852135	Plug	1
17	51500	3861459	Exhaust Manifold	1

Volvo Penta

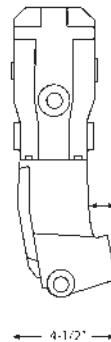
V6, V8 SMALL BLOCK & V8 BIG BLOCK EXHAUST MANIFOLD DIMENSIONS

3 Inch Risers

V6

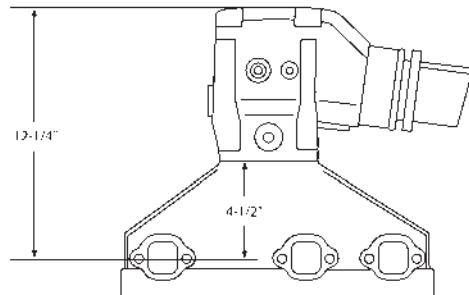
No. 51330

EXHAUST ELBOW
OEM: 3863061



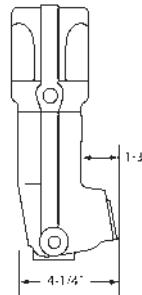
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EXHAUST MANIFOLD
OEM: 3857656



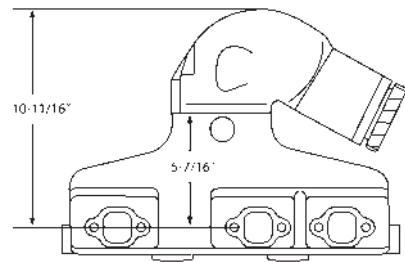
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EXHAUST ELBOW
OEM: 857037-6



No. 51640

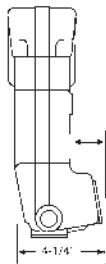
EXHAUST MANIFOLD
OEM: 856894



V8 Small Block

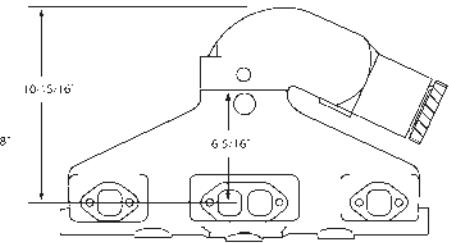
No. 51510

EXHAUST ELBOW
OEM: 856891



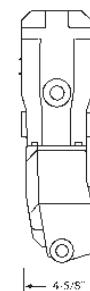
No. 51630

EXHAUST MANIFOLD
OEM: 856883



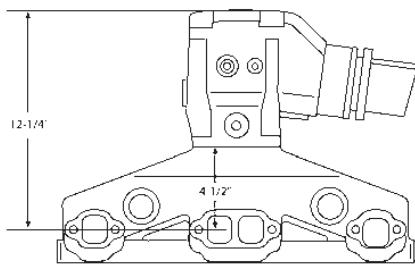
No. 51330

EXHAUST ELBOW
OEM: 3863061



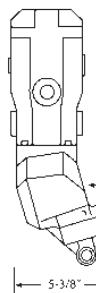
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EXHAUST MANIFOLD
OEM: 3857723



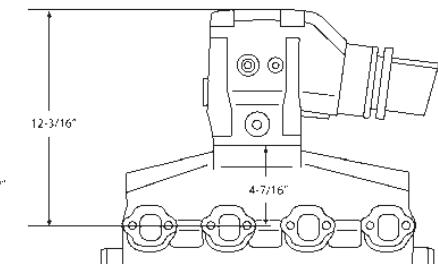
No. 51330

EXHAUST ELBOW
OEM: 3863061



No. 51490

EXHAUST MANIFOLD
OEM: 3852347

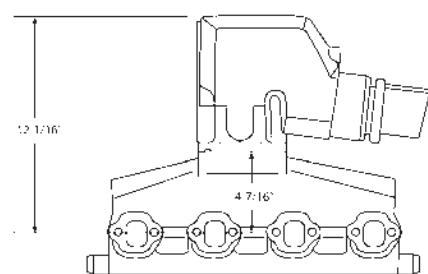
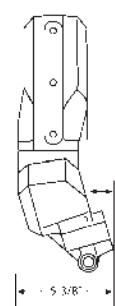


No. 51332

EXHAUST ELBOW (Port)
OEM: 3855271

No. 51334

EXHAUST ELBOW (Starboard)
OEM: 3855269



Volvo Penta

COMPLETE EXHAUST MANIFOLD KITS

No. 58640

OEM: N/A



GM V6 AQ 175-434
(1993 & Before)

No. 58490

OEM: N/A



FORD V8 302/351 CID
(Carb. Engine)

No. 58480

OEM: N/A



GM V6 4.3L 262 CID
(1992 & Up)

No. 58491

OEM: N/A



FORD V8 302/351 CID
(EFI Engine)

No. 58630

OEM: N/A



GM V8 305/350 CID
(1993 & Before)

No. 58500

OEM: N/A



GM V8 454/502 CID
(7.4/8.2L)

No. 58430

OEM: N/A



GM V8 5.7L 350 CID
(1993 & Up)

Exhaust Manifold Kits w/ Hi-Rise Single-Piece Elbow

No. 58487

OEM: N/A



GM V6 262 CID (1991 & Up)

NEW

No. 58437

OEM: N/A



GM V8 305/350 CID (1990 & Up)

NEW

No. 58492

OEM: N/A



FORD V8 302/351 CID (Carb. Engine)

NEW

No. 58507

OEM: N/A



GM V8 454/502 CID (1991 & Up)

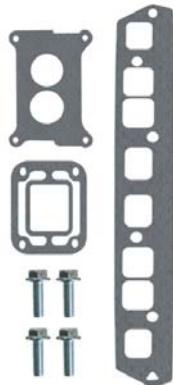
NEW

Volvo Penta

EXHAUST MANIFOLD GASKET AND HARDWARE KITS

No. 53772

W/ HARDWARE
OEM: N/A



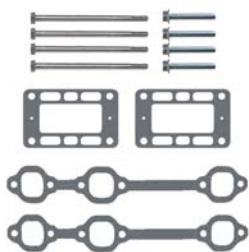
For GM 4-Cyl. 181 CID
(1992 & Up)

No. 53640

W/ HARDWARE
OEM: N/A

No. 39774

W/OUT HARDWARE
OEM: N/A



For GM V6 AQ175-AQ434
(1993 & Before)

No. 53770

EXHAUST GASKET / HARDWARE KIT
OEM: N/A



No. 37100

W/O HARDWARE
OEM: 855967

No. 53771

EXHAUST MANIFOLD
HARDWARE KIT
OEM: N/A



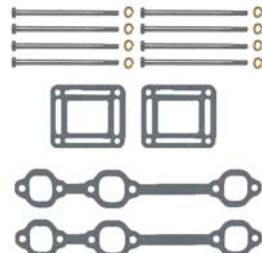
For AQ 120/125/131/140/145/151
BB 140/145/230/250, 4-Cyl. (1973-90)

No. 53773

W/HARDWARE
OEM: N/A

No. 39773

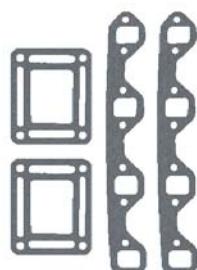
W/OUT HARDWARE
OEM: N/A



For GM V6 4.3L 262 CID
(1991 & Up)

No. 53920

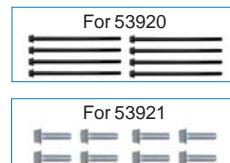
FOR CARBURETOR
W/ HARDWARE
OEM: N/A



No. 53921
FOR FUEL INJECTION
W/ HARDWARE
OEM: N/A

No. 39920

W/OUT
HARDWARE
OEM: N/A



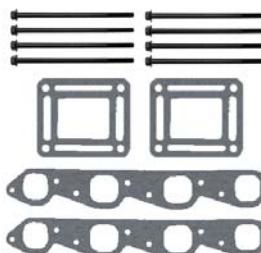
For FORD V8 302/351 CID

No. 53940

W/ HARDWARE
OEM: N/A

No. 39940

W/OUT HARDWARE
OEM: N/A



For GM V8 454/502 CID

No. 13993

DRAIN COCK
OEM: 82745-1



For AQ 120/125/131/140/145/151
BB 140/145/230/250, 4-Cyl. (1973-90)



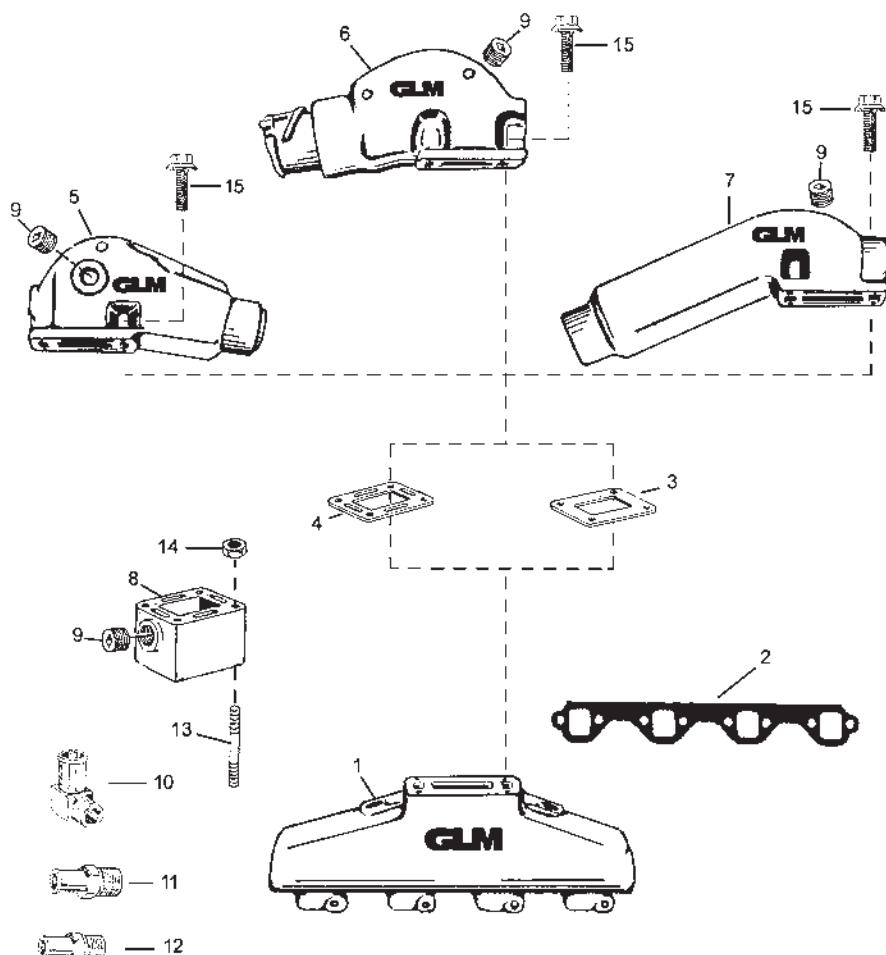
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Barr / Indmar / Marine Power

MODEL - FORD 5.0/5.8L - 302/351 CID V8



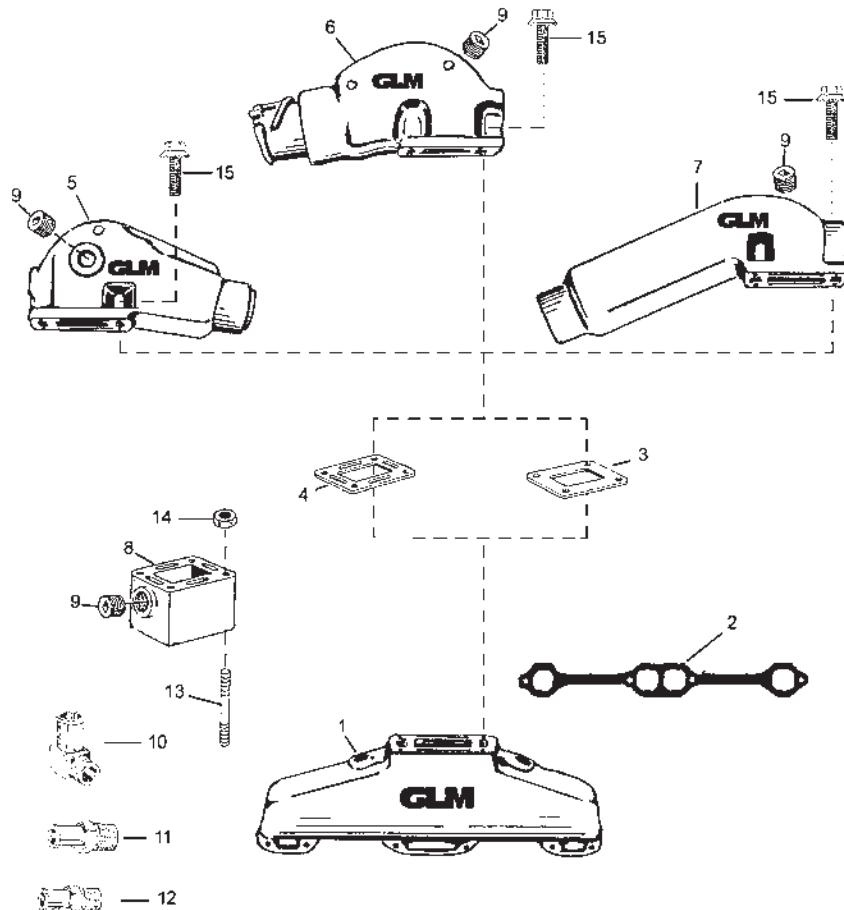
Ref No.	GLM No.	OEM No.	Description	Qty.
1	56250	FM-1-83 (Barr) 53-2008 (Indmar)	Exhaust Manifold Assembly	1
2	33790	-	Gasket - Exhaust Manifold	1
3	36820	1-0105 (Barr)	Gasket - Exhaust Elbow	1
4	36830	1-0107 (Barr)	Gasket - Exhaust Elbow	1
5	56110	20-0082(Barr)	Exhaust Elbow 3" 10 Degree	1
6	56140	20-0100 (Barr) 0992-593 (Indmar)	Exhaust Elbow 4" 10 Degree	1
7	56120	20-0102 (Barr) 53-2018 (Indmar)	Exhaust Elbow 3" 30 Degree	1
8	56030	20-0097	Spacer 3"	1
9*	21892	-	Plug	1
10	13960	-	90 Degree Elbow Fitting 3/4 -14 x 1	1
11	13984	-	Straight Fitting 3/4 -14 x 1	1
12	13986	-	Straight Fitting 3/4 -14 x 3/4	1
13	22481	-	Stud	4
14	21248	-	Nut	4
15	22355	-	Screw	4

* Included with Exhaust Elbows 56110, 56120 & 56140.

Plug also included with 3" Spacer 56030.

Barr / Indmar / Marine Power

MODEL GM 305/350 CID, V8 S.B.

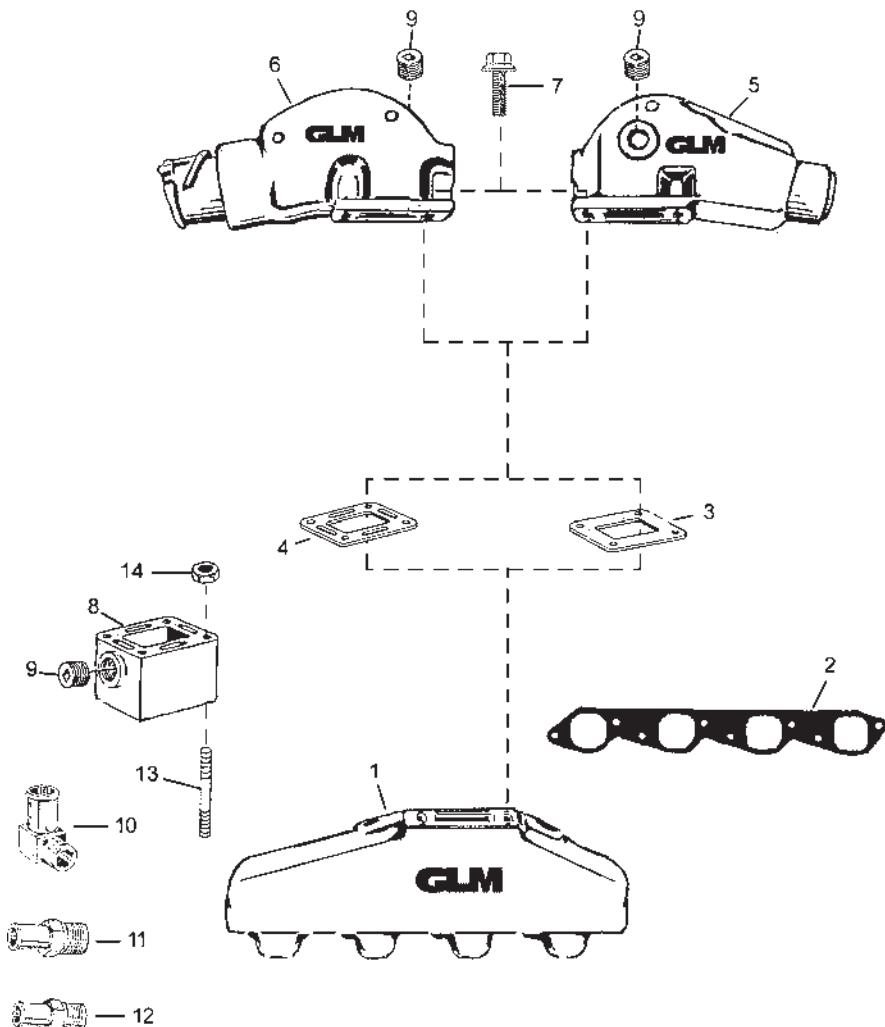


Ref No.	GLM No.	OEM No.	Description	Qty.
1	56230	CHV-1-83 (Barr) 0994-000 (M.P.)	Exhaust Manifold Assembly	1
2	31100	CHV-47-000	Gasket - Exhaust Manifold	1
3	36820	1-0105 (Barr)	Gasket - Exhaust Elbow	1
4	36830	1-0107 (Barr)	Gasket - Exhaust Elbow	1
5	56110	20-0082 (Barr) 0992-000 (M.P.)	Exhaust Elbow 3" 10 Degrees	1
6	56140	20-0100 (Barr) 0992-593 (M.P.)	Exhaust Elbow 4" 10 Degrees	1
7	56120	20-0102 (Barr) 53-2018 (Indmar)	Exhaust Elbow 3" 30 Degrees	1
8	56030	20-0097 (Barr)	Spacer 3"	1
9*	21892	-	Plug	1
10	13960	-	90 Degree Elbow Fitting 3/4 - 14 x 1	1
11	13984	-	Straight Fitting 3/4 - 14 x 1	1
12	13986	-	Straight Fitting 3/4 - 14 x 3/4	1
13	22481	-	Sud	4
14	21248	-	Nut	4
15	22355	-	Screw	4

* Included with Exhaust Elbows 56110, 56120 & 56140.
Plug also included with 3" Spacer 56030.

Barr / Indmar / Marine Power

MODEL GM 454/502 CID V8 BIG BLOCK



Ref No.	GLM No.	OEM No.	Description	Qty.
1	56240	CHVA-1-84 (Barr)	Exhaust Manifold Assembly	1
2	33760	CHVA-47-0000	Gasket - Exhaust Manifold	1
3	36820	1-0105 (Barr)	Gasket - Exhaust Elbow	1
4	36830	1-0107 (Barr)	Gasket - Exhaust Elbow	1
5	56110	20-0082 (Barr) 0992-000 (M.P.)	Exhaust Elbow 3" 10 Degrees 0992-593 (M.P.)	1 1
6	56140	20-0100 (Barr) 0992-593 (M.P.)	Exhaust Elbow 4" 10 Degrees 0992-593 (M.P.)	1 1
7	22355	-	Screw	4
8	56030	20-0097 (Barr)	Spacer 3"	1
9*	21892	-	Plug	1
10	13960	-	90 Degree Elbow Fitting 3/4 - 14 x 1	1
11	13984	-	Straight Fitting 3/4 - 14 x 1	1
12	13986	-	Straight Fitting 3/4 - 14 x 3/4	1
13	22481	-	Stud	4
14	21248	-	Nut	4

* Included with Exhaust Elbows 56110 & 56140.
Plug also included with 3" Spacer 56030.

GLM®

Barr / Indmar / Marine Power

V6, V8 SMALL BLOCK & V8 BIG BLOCK EXHAUST MANIFOLD DIMENSIONS

3 Inch Risers		4 Inch Risers	
V8 Small Block			
No. 56110 EXHAUST ELBOW OEM: 20-0082 (Barr) OEM: 0992-000 (M.P.)	No. 56230 EXHAUST MANIFOLD OEM: CHV-1-83	No. 56120 EXHAUST ELBOW OEM: 20-0102 (Barr) OEM: 53-2018 (Indmar)	No. 56230 EXHAUST MANIFOLD OEM: CHV-1-83
No. 56110 EXHAUST ELBOW OEM: 20-0082 (Barr) OEM: 0992-000 (M.P.)	No. 56250 EXHAUST MANIFOLD OEM: FM-1-83 OEM: 53-2008	No. 56120 EXHAUST ELBOW OEM: 20-0102 (Barr) OEM: 53-2018 (Indmar)	No. 56250 EXHAUST MANIFOLD OEM: FM-1-83 OEM: 53-2008
3 Inch Riser		4 Inch Riser	
V8 Big Block			
No. 56110 EXHAUST ELBOW OEM: 20-0082 (Barr) OEM: 0992-000 (M.P.)	No. 56240 EXHAUST MANIFOLD OEM: CHVA-1-84 (Barr)	No. 56140 EXHAUST ELBOW OEM: 20-0100 (Barr) OEM: 0992-000 (M.P.)	No. 56240 EXHAUST MANIFOLD OEM: CHVA-1-84 (Barr)

Barr / Indmar / Marine Power

COMPLETE EXHAUST MANIFOLD KITS

No. 58624

OEM: N/A



For GM V8 B.B. fits 3" Hose

No. 58634

OEM: N/A



For GM V8 B.B. fits 4" Hose

No. 58623

OEM: N/A



For GM V8 S.B. fits 3" Hose

No. 58633

OEM: N/A



For GM V8 S.B. fits 4" Hose

No. 58643

OEM: N/A



For GM V8 S.B. with 3" 30 Degree Riser

No. 58625

OEM: N/A



For FORD V8 fits 3" Hose

No. 58635

OEM: N/A



For FORD V8 fits 4" Hose

No. 58645

OEM: N/A



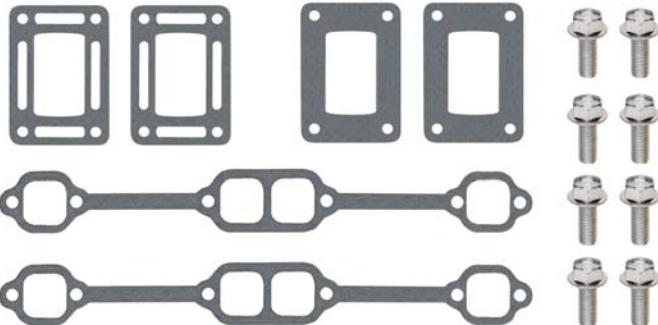
For FORD V8 with 3" 30 Degree Riser

Barr / Indmar / Marine Power

EXHAUST MANIFOLD GASKET AND HARDWARE KITS

No. 53781

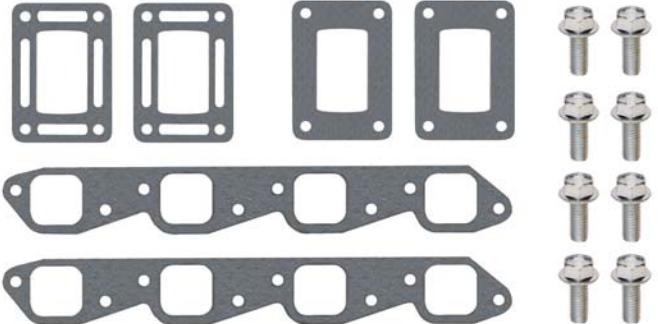
W/ HARDWARE
OEM: N/A



For GM V8 Small Block

No. 53782

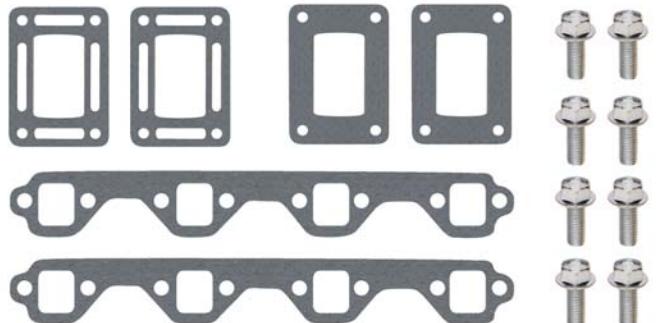
W/ HARDWARE
OEM: N/A



For GM V8 Big Block

No. 53783

W/ HARDWARE
OEM: N/A



For FORD V8



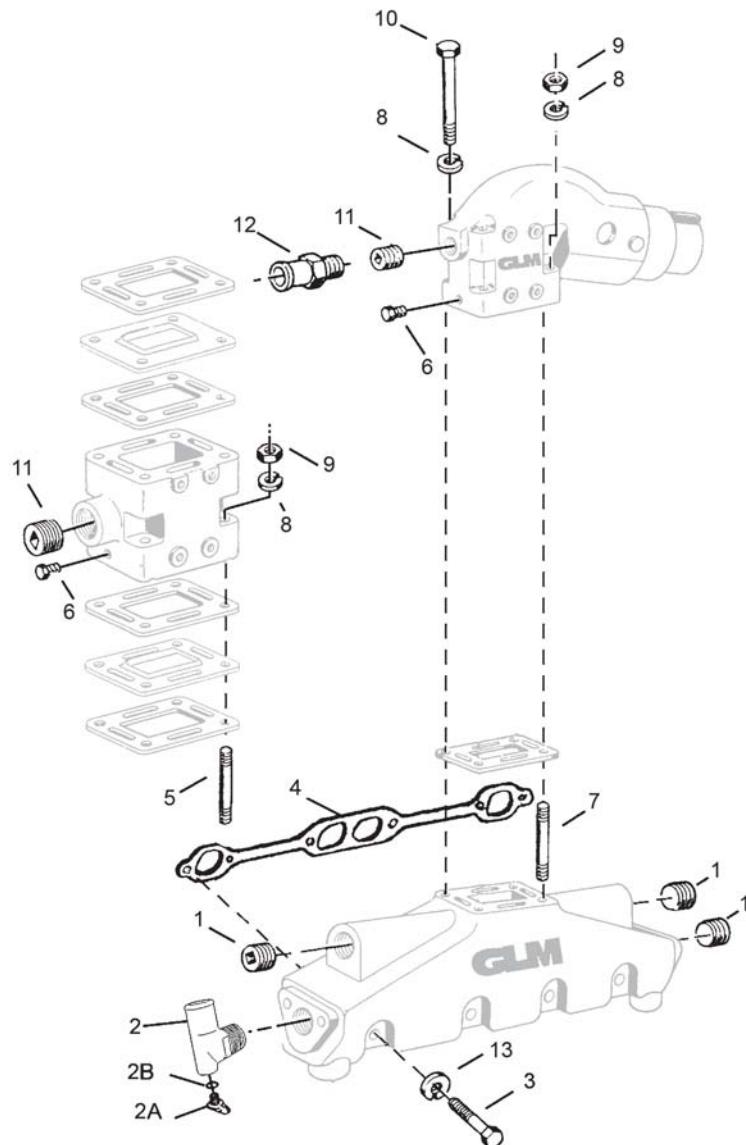
Section 5

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Crusader / Pleasurecraft

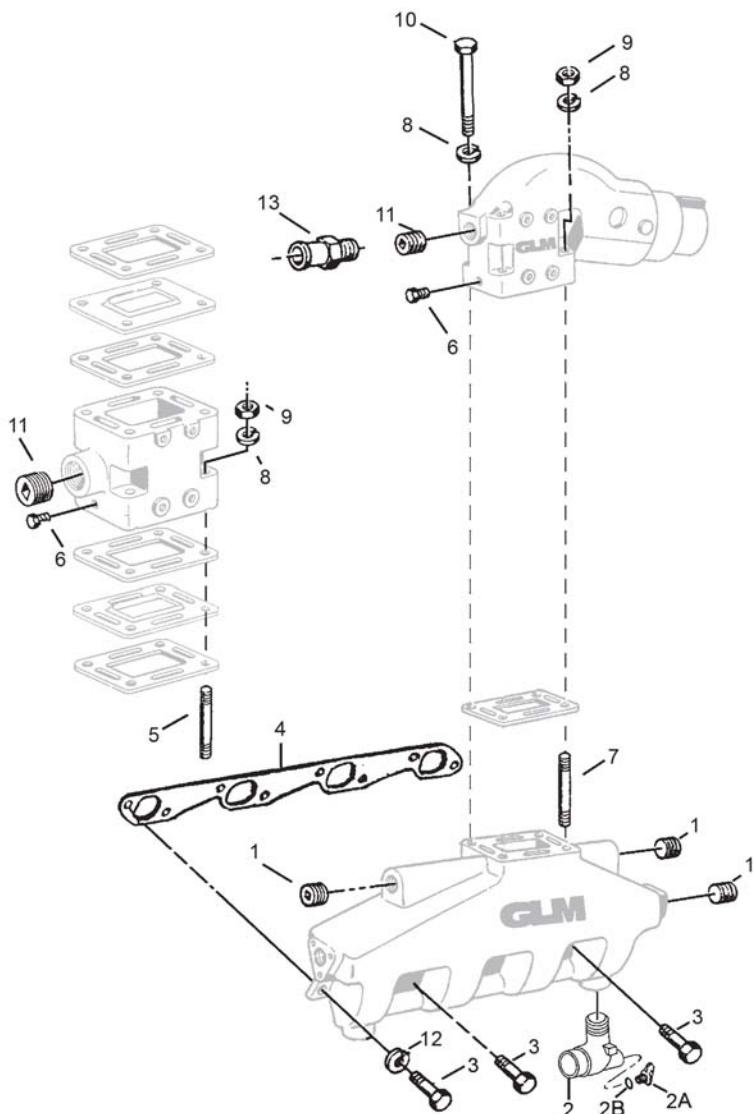
CRUSADER - MODEL 305XL/350XL/350HT - GM 305/350 CID V8 S.B.



Ref No.	GLM No.	OEM No.	Description	Qty.
1	21886	103876	Plug (1")	5
2	13950	30624	Hose Fitting & Drain Plug Kit	1
2A	13992	22-806608A02	Drain Plug Kit	1
2B	80140	-	O-Ring	1
3	23231	RS0316	Screw	4
4	31100	96306	Gasket - Exhaust Manifold	1
5	22463	20783	Stud (2 - 3/4") - Spacer	4
6	21887	127950	Plug - Drain	1
7	22464	20827	Stud (3") - Exhaust Manifold	2
8	21493	93300000	Lockwasher	8
9	21248	95300000	Nut	2
10	23232	90305475	Screw	2
11	21892	113186	Plug (3/4")	1
12	13984	97911	Straight Fitting - Exhaust Elbow/Spacer	1
13	21497	RS2180	Lockwasher	4

Crusader / Pleasurecraft

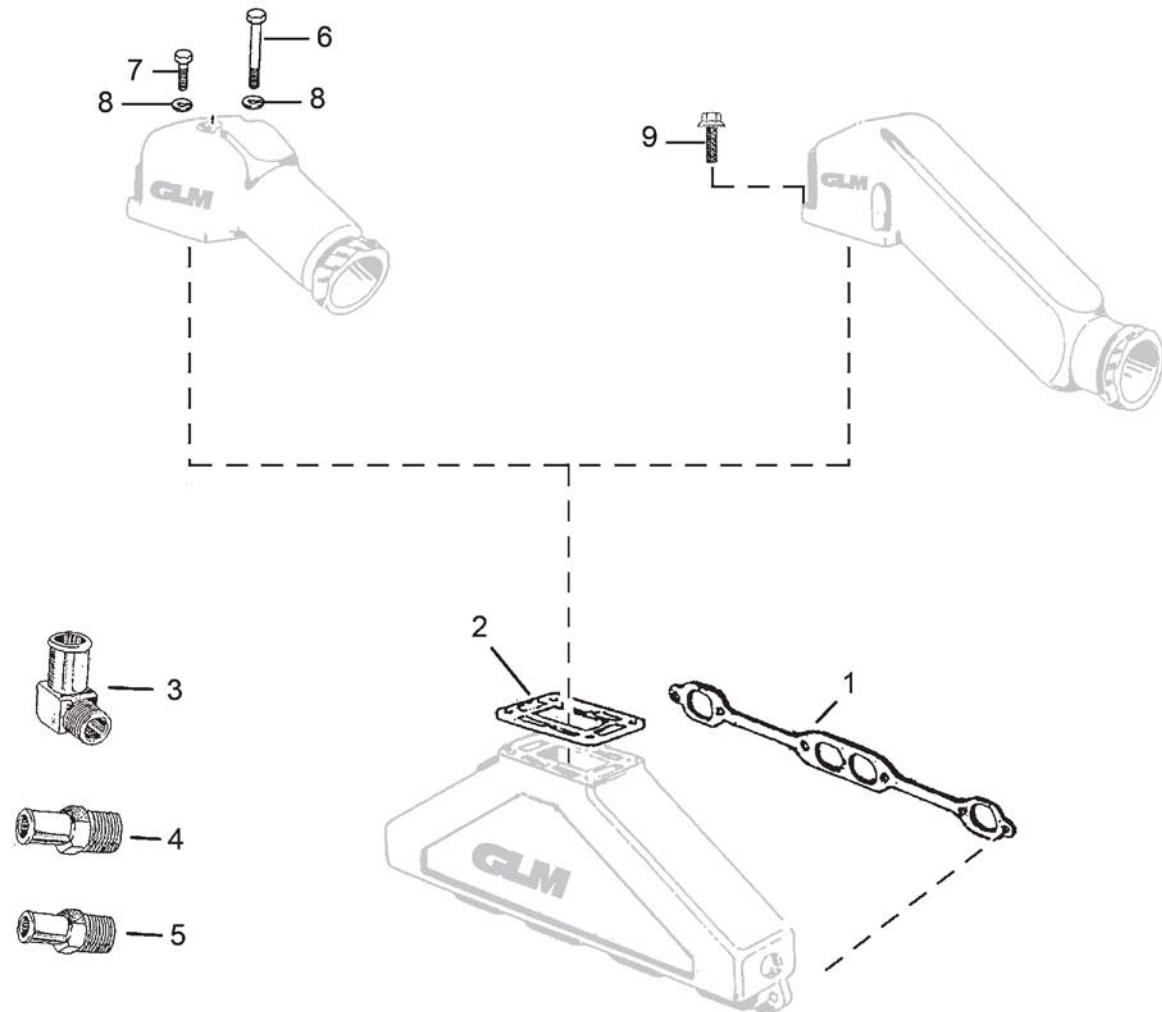
CRUSADER - MODEL 454XL/502XL - GM 454/502 CID V8 B.B.



Ref No.	GLM No.	OEM No.	Description	Qty.
1	21886	103876	Plug (1")	1
2	13950	97854	Hose Fitting & Drain Plug Kit	1
2A	13992	22-806608A02	Drain Plug Kit	1
2B	80140	-	O-Ring	1
3	22364	R009206	Screw	1
4	33760	96653	Gasket - Exhaust Manifold	1
5	22463	20783	Stud (2 - 3/4") - Spacer	1
6	21887	127950	Plug - Drain	1
7	22464	20827	Stud (3") - Exhaust Manifold	1
8	21693	93300000	Lockwasher	4
9	21248	95300000	Nut	4
10	23232	90305475	Screw	4
11	21892	113186	Plug (3/4")	1
12	21497	RS2180	Lockwasher	4
13	13984	97911	Straight Fitting	1

Crusader / Pleasurecraft

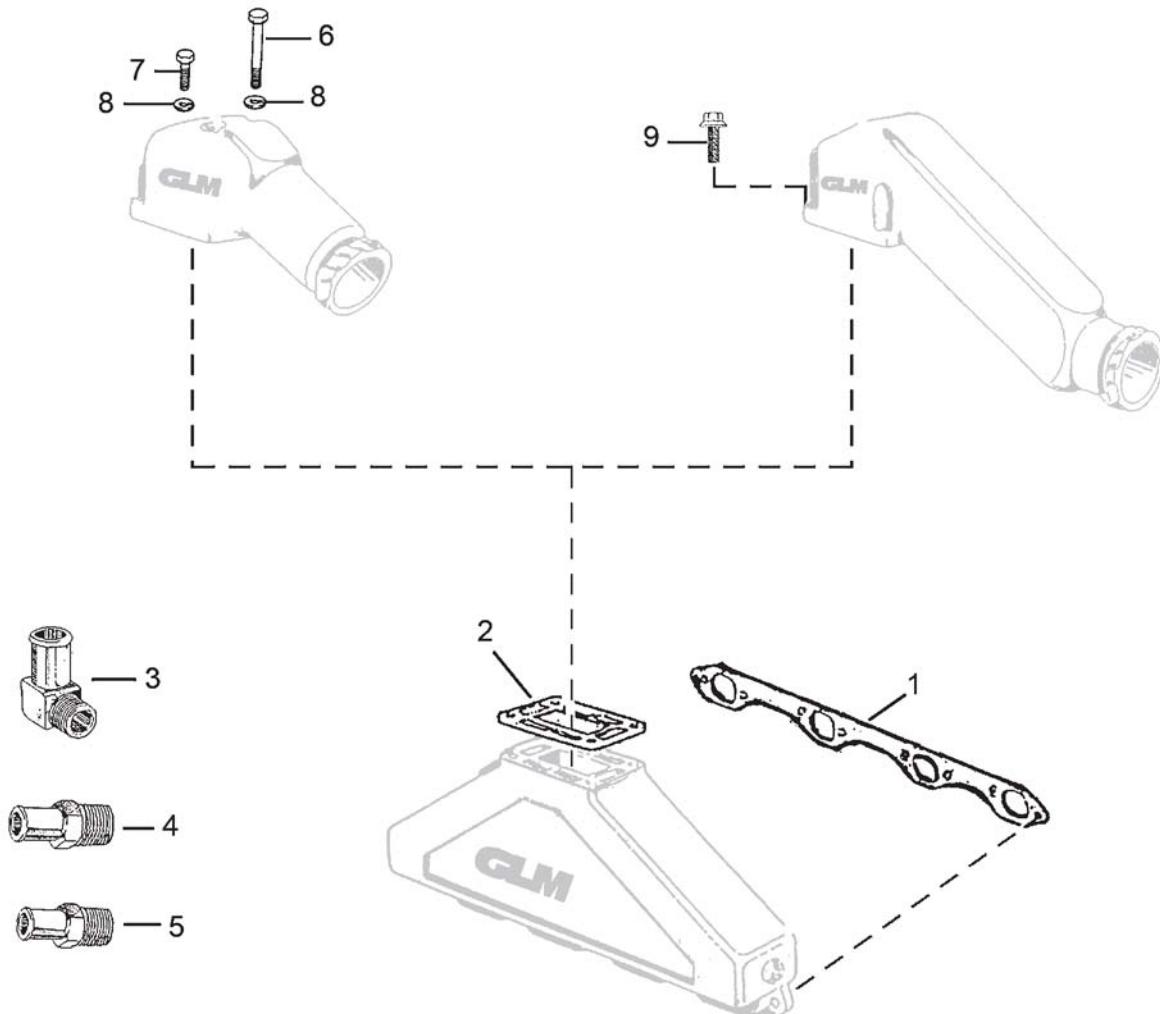
PLEASURECRAFT - MODEL 5.0/5.7L - GM 305/350 CID V8 S.B.



Ref No.	GLM No.	OEM No.	Description	Qty.
1	31100	-	Gasket - Exhaust Manifold	1
2	33500	RM0002	Gasket - Exhaust Elbow	1
3	13960	-	90 Degree Elbow Fitting 3/4 -14 x 1	1
4	13984	-	Straight Fitting 3/4 -14 x 1	1
5	13986	-	Straight Fitting 3/4 -14 x 3/4	1
6	22359	RS0387	Screw - Long	2
7	22331	RS0285	Screw - Short	2
8	21493	RS2179	Lockwasher	4
9	22355	RS0305	Screw	4

Crusader / Pleasurecraft

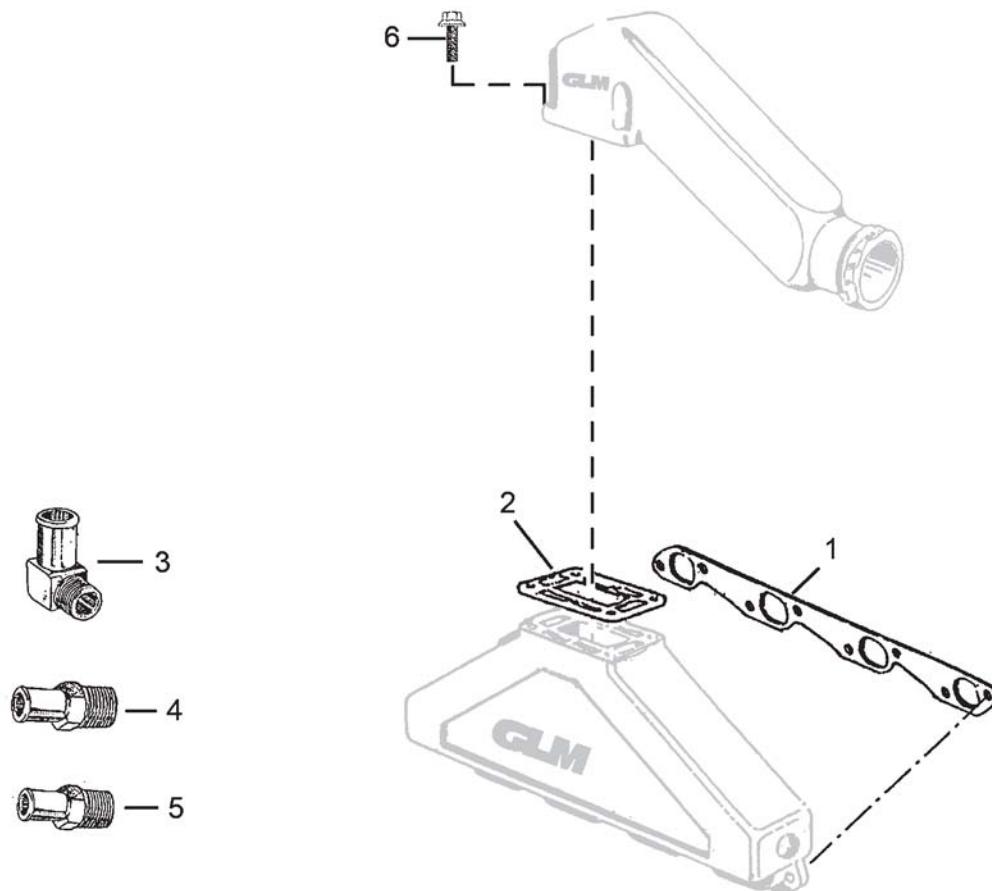
PLEASURECRAFT - MODEL 5.0/5.8L - FORD 302/351 CID V8



Ref No.	GLM No.	OEM No.	Description	Qty.
1	33790	-	Gasket Exhaust Manifold	1
2	33500	RM0002	Gasket Exhaust Elbow	1
3	13960	-	90 Degree Elbow Fitting 3/4 -14 x 1	1
4	13984	-	Straight Fitting 3/4 -14 x 1	1
5	13986	-	Straight Fitting 3/4 -14 x 3/4	1
6	22359	RS3087	Screw - Long	2
7	22331	RS0285	Screw - Short	2
8	21493	RS2179	Lockwasher	4
9	22355	RS0305	Screw	4

Crusader / Pleasurecraft

PLEASURECRAFT - MODEL 7.4L/8.1L - GM 454/502 CID V8 B.B.



Ref No.	GLM No.	OEM No.	Description	Qty.
1	33760	-	Gasket - Exhaust Manifold	1
2	33512	RM0099	Gasket - Exhaust Elbow	1
3	13960	-	90 Degree Elbow Fitting 3/4 -14 x 1	1
4	13984	-	Straight Fitting 3/4 -14 x 1	1
5	13986	-	Straight Fitting 3/4 -14 x 3/4	1
6	22355	RS0305	Screw	4

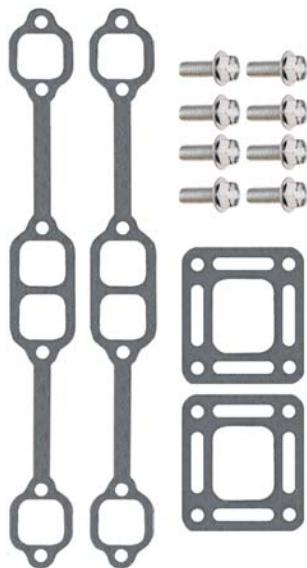
Crusader / Pleasurecraft

EXHAUST MANIFOLD GASKET AND HARDWARE KITS

Pleasurecraft

No. 53786

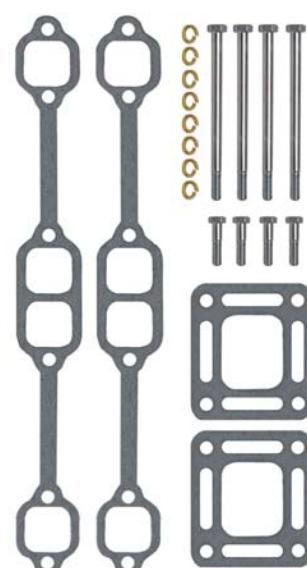
W/ HARDWARE
OEM: N/A



For GM V8 Small Block fits 3" Hose (GLM No. 58420 Kit)

No. 39803

W/OUT HARDWARE
OEM: N/A

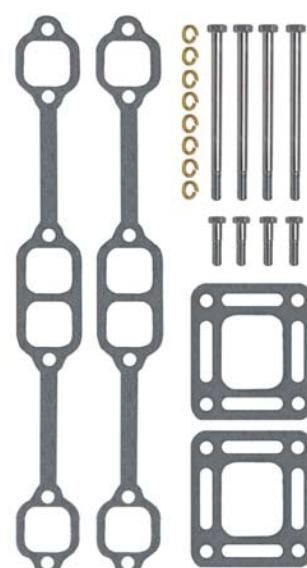


No. 53787

W/ HARDWARE
OEM: N/A

No. 39803

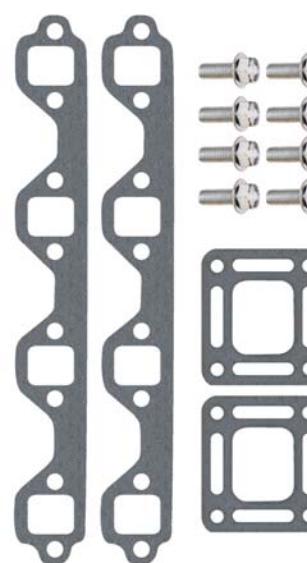
W/OUT HARDWARE
OEM: N/A



For GM V8 Small Block fits 3-1/2" Hose (GLM No. 58423 Kit)

No. 53788

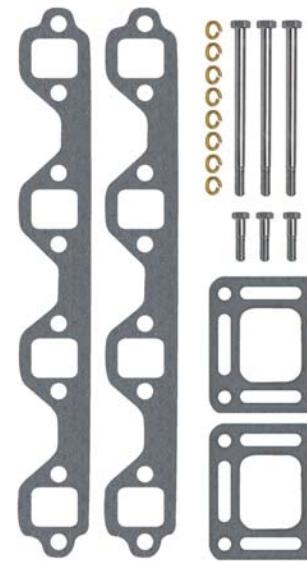
W/ HARDWARE
OEM: N/A



For FORD V8 Small Block fits 3" Hose (GLM No. 58425)

No. 39805

W/OUT HARDWARE
OEM: N/A



No. 53789

W/ HARDWARE
OEM: N/A

No. 39805

W/OUT HARDWARE
OEM: N/A

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13950	74,75	22315	43,54	32040	30	50300	15,21,25,37
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21497	74,75	22462	15,21	36820	66,67,68	51120	3,5,18,28,29,30
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56110	66,67,68,69	59992	17		
56120	66,67,69	80140	3,7,9,15,19,21,		
56140	66,67,68,69		25,43,44,46,47,		
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NOTES:

Limited Warranty of GLM Products, Inc.

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

Warranty Service Procedure

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

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

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

Send parcel(s) to:

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



GLM Products, Inc.

Warranty Claim Application

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

RGA # _____
Date Called: _____
Caller Name: _____
Company Name: _____

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

Distributor Information:

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

Dealer Information:

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

Dealer Customer Information:

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

Application Details:

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

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

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

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

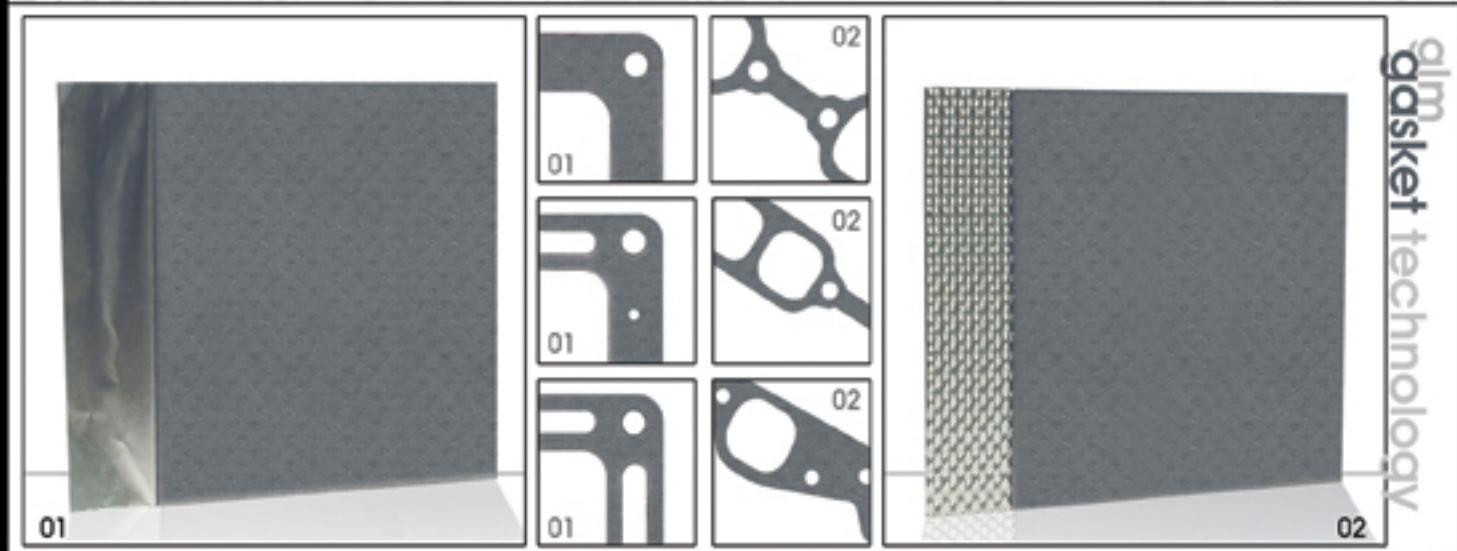
Documentation and other items required to process warranty: Please make sure that all items listed are sent with this application. Failure to do so will delay processing this claim.

1. All parts claimed and listed on this application. This is all parts being claimed regardless of manufacturer.
2. Copy of invoices as follows:

A. Original purchase invoice from Distributor.	C. Invoice for installation of warranted parts.
B. Proposed invoice to GLM from the Dealer for repairs.	D. Invoices for any other items being claimed

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





01 : [elbow gaskets]
Flat sus316 reinforced and flexible
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02 : [manifold gaskets]
Tanged sus316 reinforced and flexible
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www.glmmarine.com



Manifold Catalog

\$3.50 USD

GXM07V1