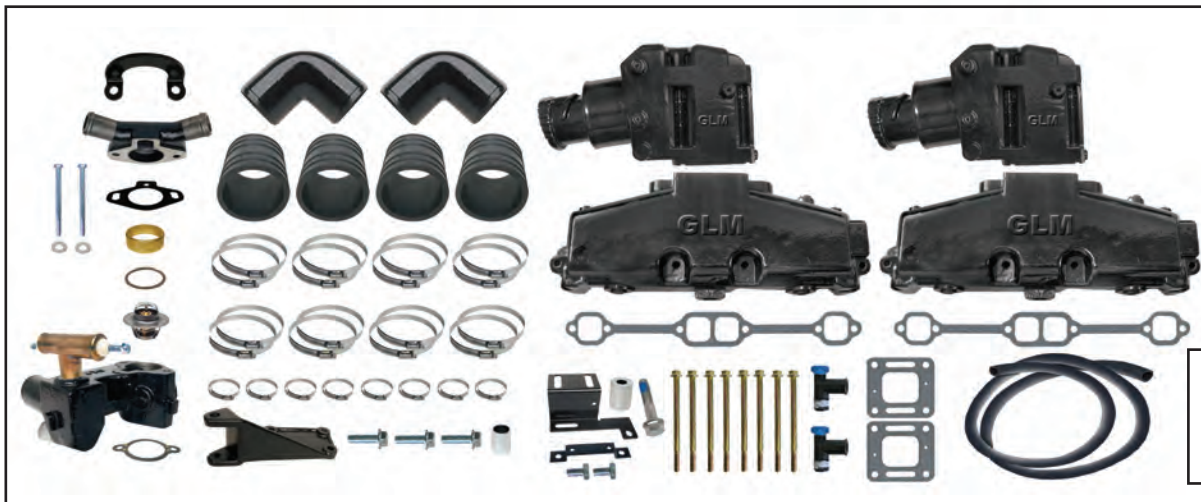


Congratulations on your purchase of GLM's V8 Conversion Kit

From the Log Style Manifolds to the 4" Center Rise Manifolds



GLM No. 13960



Order Separately

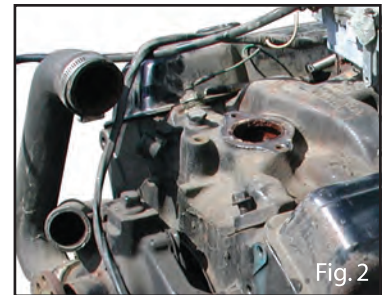
GLM No. 58990 - Cast Iron V8 Conversion Kit			
Qty.	Description	GLM	OEM
1	Exhaust Manifold Kit - Cast Iron	58232	N/A
1	Thermostat Housing Kit	13222	N/A
1	Thermostat	13030	807052T1
1	Water Hose	47180	N/A
2	Exhaust Tube 4"	50770	N/A
4	Exhaust Bellow 4"	89120	32-44348T
16	Hose Clamps	01100	54-815504372
8	Hose Clamp (small)	01057	N/A
1	Solenoid Bracket	50011	N/A
2	Screw	22303	N/A
1	Fuel Filter Bracket	50012	N/A
1	Spacer	21026	N/A
1	Screw	22371	331999
1	Alternator Bracket	74009	93175T
1	Alternator Bracket - Spacer	21695	23-33186
3	Screw	22355	10-12244

Disassembly

Note: Before beginning any procedures make sure the battery cables are removed from the battery!

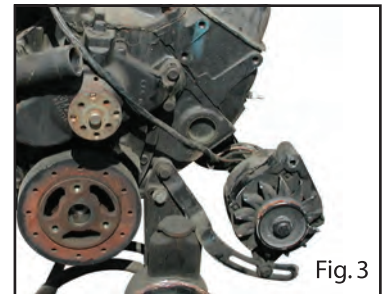
Disassembly of Thermostat Housing (see Fig. 1 & 2)

1. Drain cooling system.
2. Remove water inlet hose from thermostat housing.
3. Remove front and rear water hoses from both exhaust manifolds.
4. Remove water hoses from both exhaust elbows.
5. Remove circulation pump to thermostat housing water hose.
6. Unbolt thermostat cover and housing, remove it and any attached hoses.



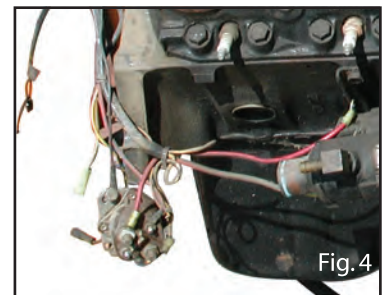
Disassembly of Alternator (see Fig. 3)

1. Remove pivot bolt and spacer from alternator bracket. Save the bolt, nut and spacer. Support alternator.



Disassembly of Manifolds and Attached Hardware (see Fig. 4 & 5)

1. Remove starter assist solenoid from rear of starboard manifold. Leave wires attached and let solenoid hang.
2. Loosen fuel lines, remove fuel filter and bracket from front of manifold.
3. Loosen clamps on exhaust bellows and work bellows loose from exhaust elbows.
4. Remove exhaust manifolds and exhaust elbows.

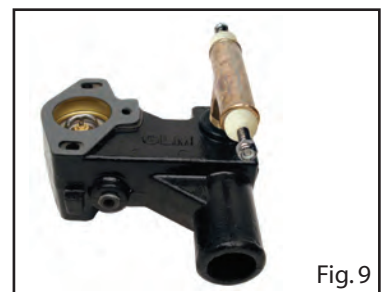
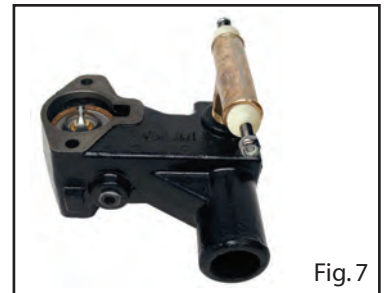


Thermostat Housing Assembly

Note: Make sure all gasket surfaces are clean, free of grease and oil!

Assembly of Thermostat Housing (see Fig. 6 thru 10)

1. Coat threads of brass tee with sealer and install in thermostat housing (No. 13225). Install checkball assembly in brass tee.
2. Install thermostat, thermostat gasket and thermostat sleeve into thermostat housing.
3. Coat both sides of the lower thermostat housing gasket (No. 31560) with sealer, position gasket and thermostat housing on intake manifold.
4. Coat both sides of thermostat housing cover gasket (No. 31631) with sealer. Align holes in gaskets with holes in manifold and cover and install bolts. Tighten to specified torque.

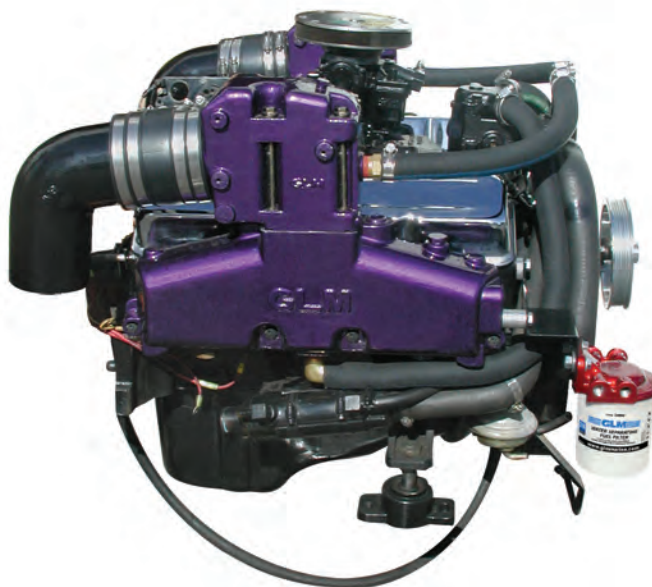
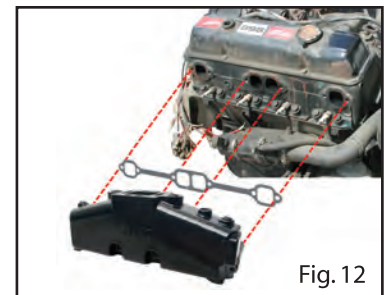
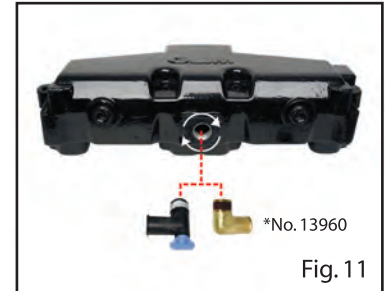


Exhaust Manifold and Exhaust Elbow Assembly

Note: Make sure all gasket surfaces are clean, free of grease and oil!

Assembly of Exhaust Manifolds/Elbows

1. Install 90 degree water inlet elbows into bottom of manifolds. Some models require the use of the original inlet elbow (brass w/o drain) on the starboard manifold (see Fig. 11). GLM recommends No. 13960 for these applications (*must order separately).
2. Install manifolds with gaskets to cylinder heads utilizing existing bolts (see Fig. 12). Tighten bolts to specified torque (see charts below).
3. Slide a new exhaust bellow (No. 89120) w/ hose clamps over each side of Y pipe. Install bellow exhaust tube (50770) in bellow (see Fig. 13)
4. Slide remaining two exhaust bellows (89120) over exhaust tube.
5. Using new gasket (No. 30240) mount exhaust elbow (No. 51140) to manifold (see Fig. 14). Tighten bolts to specifications using an X pattern. After all bolts are torqued, tighten all hose clamps securely.
6. Install 1" brass hose fitting in exhaust elbow. Using 1" hose, cut hose to length from brass tee to exhaust elbows, then from thermostat housing cover to exhaust manifold inlet (see Fig. 15).
7. Install hoses with hose clamps. Tighten securely.



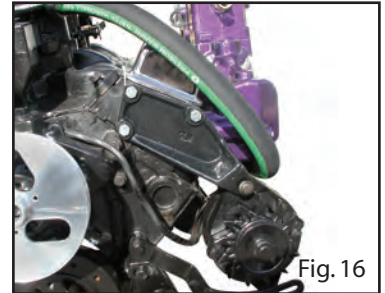
58990 - Cast Iron Torque Specs
The Riser to Manifold bolts or nuts
MUST BE TORQUED
to the following specification:
33 lb. ft. / 45 N. m.

Alternator, Solenoid and Fuel Filter Bracket Assembly

Note: Make sure all gasket surfaces are clean, free of grease and oil!

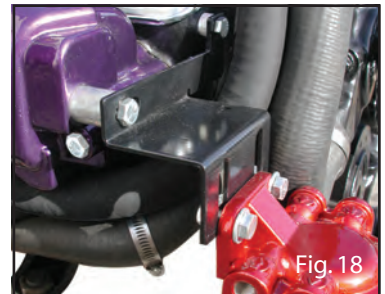
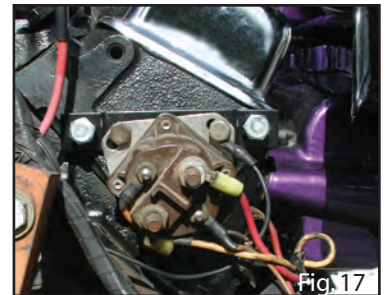
Assembly of the Alternator and Solenoid

1. Mount new alternator bracket (No. 74009) to front port side cylinder head (see Fig. 16)
2. Using the old alternator pivot bolt, nut and new spacer provided, install alternator into new bracket. Adjust tension on alternator belt and tighten securely.
3. Attach starter assist solenoid to bracket (No. 50011). Mount complete assembly to rear of starboard cylinder head (see Fig. 17).



Assembly of the Fuel Filter Bracket

1. Mount fuel filter bracket (No. 50012) to front of starboard exhaust manifold and cylinder head (see Fig. 18).
2. Mount fuel filter assembly onto bracket, leave hose loose.
3. Install fuel lines hand tight.
4. Tighten filter assembly securely.
5. Tighten fuel lines securely.



After all hose clamps and screws are tight, reattach battery cables, attach a good water supply and test run engine. Check for water or exhaust leaks and/or proper water flow. Ensure that there is proper clearance for water hoses, fuel lines and wiring. After engine is brought to temperature, let cool and re-check all hose clamps and fasteners. Retorque if necessary.

Congratulations! You've now converted your old log style manifolds to the new more effeciant 4" center rise manifolds. See you on the water!

