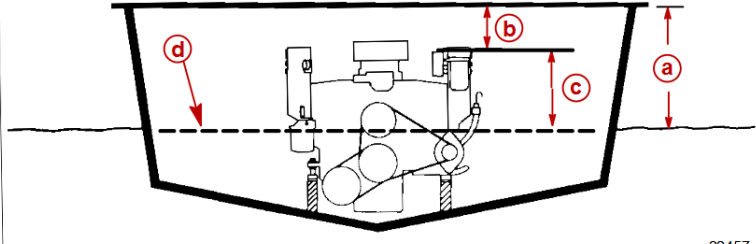


Exhaust System

IMPORTANT: It is the responsibility of the boat manufacturer or installing dealer to properly locate the engine and install the exhaust system. Improper installation may allow water to enter the exhaust manifolds and combustion chambers and severely damage the engine. Damage caused by water in the engine will not be covered by Mercury MerCruiser Warranty, unless this damage is the result of defective part(s).

Determine if exhaust elbow risers are required, by taking measurements "a" and "b," with boat at rest in the water and maximum load aboard. Subtract "b" from "a" to find "c." If "c" is less than specified in chart, select appropriate size exhaust elbow riser kit, and exhaust extension kit if applicable, that will correctly position exhaust elbow.

Model	"c" = "a" Minus "b"
All Engines	"c" Must Be 13 in. (330 mm) or More



22457

When designing and installing exhaust system, it is very important that the following points be taken into consideration:

NOTE: Information given applies to all engines unless otherwise stated.

- System layout and construction must prevent cooling system discharge water from flowing back into engine and also must prevent seawater from entering engine via exhaust system.
- The exhaust hoses and pipes must not be higher than exhaust elbows at any point.
- The exhaust outlet (for routing exhaust to outside of boat) must be located so that a minimum of 1/2 in. (13 mm) per foot (305 mm) downward pitch (drop) exists in the exhaust hose or pipe from the engine exhaust elbow to the outlet, with a minimum drop of 4 in. (102 mm) overall. (This is an American Boat & Yacht Council recommendation.) The drop must be constant so that a low spot does not exist at any point in the exhaust hose or pipe.
- Exhaust outlet must be slightly above the water line with boat at rest in the water and a full load aboard. Exhaust outlet should be equipped with an internal shutter to prevent seawater from running back into exhaust system. The use of an exhaust flapper on each outlet also is recommended on all models except the 8.1L models.

- System must not cause excessive back pressure when measured at exhaust elbow outlets. Back pressure MUST NOT exceed 2 psi (14 kPa). Minimum exhaust hose sizes are given in chart:

Minimum Exhaust Outlet Hose Size		
Model	Single Outlet	Dual Outlet
5.7L	4 in. (102 mm)	3 in. (76 mm)
350 Mag MPI / 350 Mag MPI Horizon		
MX 6.2L MPI	4 in. (102 mm)	3 in. (76 mm)

- Exhaust hoses must be secured at each connection with two (2) hose clamps.
- Exhaust hoses must be connected to exhaust elbows so that they do not restrict the flow of discharge water from the elbow. If hoses are connected incorrectly, a hot spot in the hose can occur, and can eventually burn through.