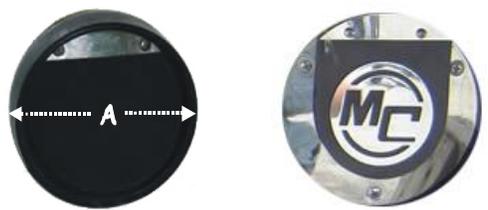
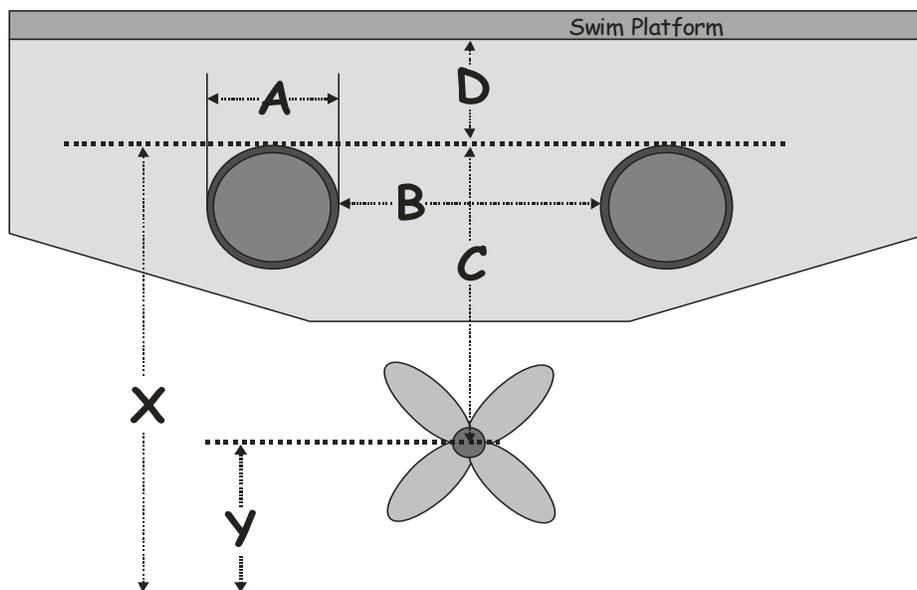


Measurements needed for your boat's Fresh Air Exhaust

First determine which type and size exhaust outlet your boat has and enter as Measurement A

 <p>If the exhaust outlet is like this, measure the outside of the plastic. The diameter will be 4-1/2, 5-1/2 or 6 inches.</p> <p>The diameter of this outlet is 6-1/4 inches. For this outlet also measure the diameter of the opening. It is either close to 3" or 4".</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; color: red; font-weight: bold;"> <p>If the exhaust outlet is one of these 2 above, take measurements B and C from the outside edges of the plastic or metal flange.</p> </div>	 <p>If the exhaust outlet is attached with a hose clamp, remove the clamp and flapper to take all the measurements.</p> <p>If the exhaust outlet is similar to these, measure the diameter of the tube (not the flange).</p> <p style="text-align: center;">The diameter will be 3, 3-1/2, or 4 inches.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; color: red; font-weight: bold;"> <p>If the exhaust outlet is one of these 4 above, take measurements B and C from the edges of the tube or opening; NOT the flange.</p> </div>
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Next, looking at the back of your boat (the transom), obtain the following measurements.



B is the distance between the outlets as noted above. This measurement is typically between 10 and 15 inches. This measurement needs to be accurate within 1/4".

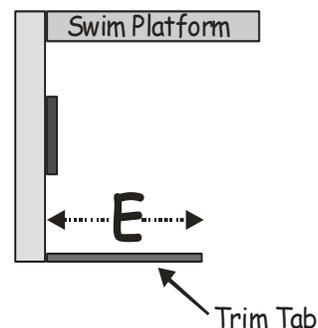
C is the distance between the top of the outlet (as noted above) and the center of the propeller. This measurement is typically between 14 and 16 inches and needs to be accurate within 1/2". One method to obtain measurement **C** is to measure from the top of the exhaust outlets to the ground (**X**) and then measure from the center of the propeller to the ground (**Y**). The difference between these 2 measurements equals **C**. If you use this XY method the ground and trailer need to be level.

X=	Minus	Y=	Equals	C=
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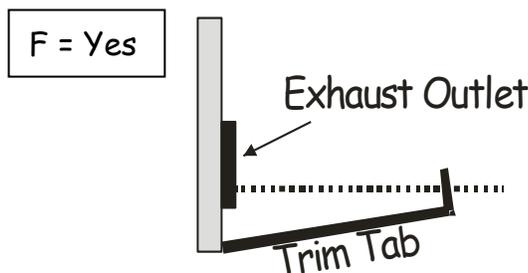
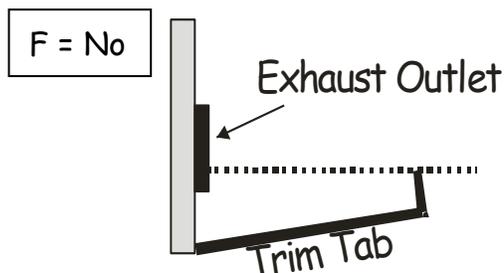
D is the distance between the top of the exhaust outlets and the bottom of the swim platform. This measurement is typically between 3 and 9 inches and needs to be accurate within 1". Most swim platforms have uneven bottom surfaces; pick the highest point to measure.

Continued on the next page.

If your boat does not have a trim plate, then measurement **E** equals zero and you can skip this section. If it does, measurement **E** is shown at right and is typically between 3 and 9 inches



With the trim plate in the fully up position as shown in the 2 drawings below, determine if the trim tab raises above the bottom of the exhaust outlet opening. For this measurement the bottom of the exhaust outlet is the bottom of the opening, not the bottom of the plastic housing or flange. If the trim tab raises above the bottom of the exhaust outlet opening, measurement **F** equals yes. You can lay a ruler in the exhaust opening to help make this determination.



Next, obtain your boat's swim platform measurements. The measurements needed from your swim platform are shown on the next page.

Record your measurements below, and text or email to:
mail@boatpipes.com

Brand		Year		Style/ Model	
A=	B=	C=	D=	E=	F= Yes / No
P1 2 or 3	P2		P3 inches	P4 inches	
P5 Yes or No	P6 inches		P7 inches	P8 Yes or No	

If you have a digital camera, pictures of your boat's exhaust outlets, swim platform, and platform brackets may be helpful. Send them by text or email to: mail@boatpipes.com

Continued on the next page.

Swim Platform Measurements

P1 - How many metal support brackets does your boat's swim platform have, 2 or 3?



Flat/T-Shape



Round

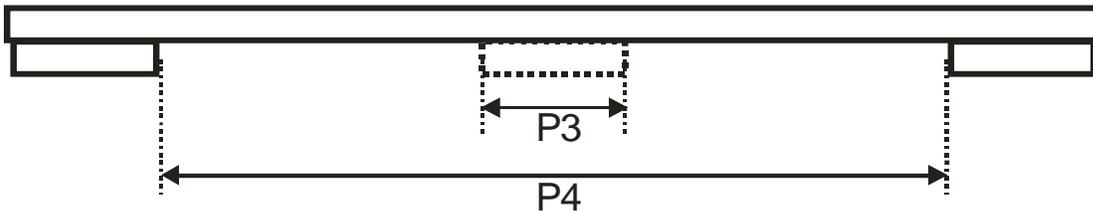


U-Shape

P2 - What is the shape of the metal bracket?

For Teak Wood Swim Platforms:

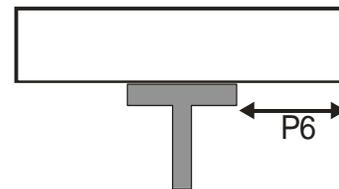
P3 - The wood on the top of your teak swim platform runs left to right. There are wood supports underneath that run front to back (fore to aft). If there is a wood support in the middle of your swim platform, how wide is it? If there is not a wood support in the middle, enter zero (0).



P4 - There will be wood supports to the left and to the right of center. What is the distance between these wood supports?

P5 - Are there metal brackets under these wood supports?

P6 - If yes, what is the distance between the edge of the metal bracket and the edge of the wood support (measure the inside edge; the side towards the midline of the boat)? This dimension frequently tapers; if so give the measurement that is about 6" aft of the transom.



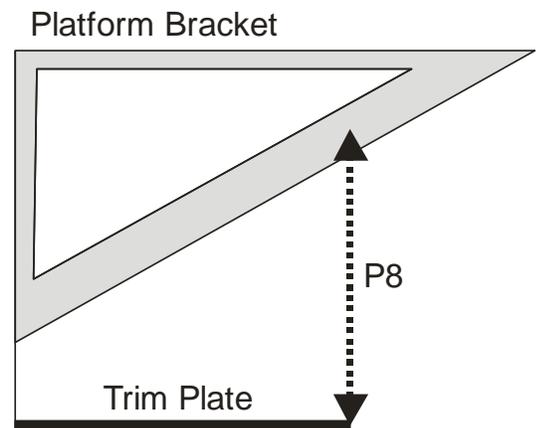
For Fiberglass Swim Platforms:

P7 - What is the distance between the 2 outer metal brackets? If there is a third, center bracket, ignore it for this measurement.



P8 - If your boat has the correct swim platform brackets you can install the FAE mounting bracket with our optional "Side Mount". The Side Mount makes installation easier. Please note there is an additional charge for the Side Mount.

Does a line drawn upwards from the aft end of the trim plate intersect with the side of your platform bracket? If your boat does not have a trim plate measure about 6" aft of the transom. If you aren't sure, send us a picture of the platform bracket with the camera positioned near the opposite platform bracket. If not sure, send several pictures.



If you need help, call 512.789.6266 while you are measuring your boat and we can explain what is needed. Pictures can be sent to this phone number.