



PITOT TUBE SPEEDOMETER

1. The pitot tube speedometer operates with changes in air pressure in the hose and speedometer. Water is pushed through the pitot into the hose compressing the air. This pressure increases as the boat speed increases, causing the gauge to read faster speeds. There must be air in the hose. When the boat is still and the hose is removed from the back of the speedometer no water should pour from the hose. If there is, blow the water back towards the pitot until air bubbles exit the pitot. Reconnect the hose to the speedometer.
2. Check the hose for kinks or sharp bends that may be cutting off air flow.
3. If the speedometer is not working, check that the pitot has not kicked partially or all the way up.
4. The pitot is weed resistant, however, debris can accumulate in its opening. Prolonged idleness in the water may attract barnacles or algae. Be sure the pitot allows water to enter the hose.
5. The speedometer has no adjustments. If the above checks don't solve the problem, the speedometer must be replaced.
6. Sometimes when a speedometer sits in the environment for quite a while, as over the winter, the internal metal parts form a coating (verdigris). This may make it difficult for the speedometer to operate. However, it should recover with repeated use.
7. If adjustable air pressure is available, standard calibration speedometers should react to the following pressures: 5 PSI = 20 MPH; 11 PSI = 30 MPH; 19 PSI = 40 MPH; and 30 PSI = 50 MPH.
8. A standard speedometer using the Mercury/Mariner in the engine foot speed pick up will read approximately 10% faster than with a Teleflex pitot mounted to the transom.
9. If the hose wants to prematurely blow off the hose barb connection at higher speeds (to 80 MPH), clamp a plastic wire tie over the hose on the barb.
10. The pitot should be mounted on the transom at least 6" from the tips of the propeller.
11. When winterizing the boat, winterize the speedometer system also. Remove the hose from the speedometer head. Blow air into the hose towards the pitot. Blow out any water that may be trapped in the hose. Leave the hose loose and the inside of the speedometer should dry out over the winter (if there is any moisture inside). Reconnect the hose before launching the boat (or the hose will pump water into the boat).
12. Every Teleflex Marine gauge can be identified by the part number printed on the side of the housing. Please reference this part number when contacting technical service or replacing the original gauge.