

Before launching your boat make a final check for loose fittings and correct slope of the plastic tubing. If launching from a trailer, turn the pick-up tube up so that it will not strike trailer or lake bottom. After launching from the trailer or hoist be certain that the pick-up is down and facing forward.

If, after launching, with boat at rest, the speedometer hand has moved away from the stop pin at 5 mph, it will be necessary to bleed the line by disconnecting it at the gage. This will occur ordinarily on larger boats only. Your dealer can supply a bleeder valve that is a great convenience for this purpose. Should the pick-up tube be broken, a replacement, Model 769 may be obtained from your dealer.

If the speedometer appears to be giving incorrect readings, check for a loose connection, kinked tubing, clogged pick-up opening or tilted pick-up. The opening of the pick-up can be cleared with a wire, or if disconnected from speedometer head, blown out with air pressure.

Great care should be taken to prevent water from reaching the speedometer mechanism. This may happen if there is a loose or leaky connection at gage or if tubing is disconnected and reconnected while boat is in motion.

When the boat is stored for the winter, disconnect the lines at the speedometer and blow out any water left in the system.

#### GUARANTEE

We guarantee this Airguide instrument to be free from defects of workmanship or material and to remain accurate in normal use. If within one year of purchase date this instrument fails to give satisfactory service, it will be repaired or replaced without charge. This guarantee does not cover breakage through accident or misuse. Replacement will be made if this instrument is returned postpaid to

**AIRGUIDE INSTRUMENT COMPANY**  
Chicago 47, Illinois

Form 897 1161

## INSTRUCTIONS

### *Airguide Marine Speedometer*

#### WITH SEA SPEED MOVEMENT AND FREE-FLO PITOT

Begin installation of the SEA SPEED by making a general survey of the installation needs; where to put the indicator, the pick-up tube and how to locate the connecting tubing.

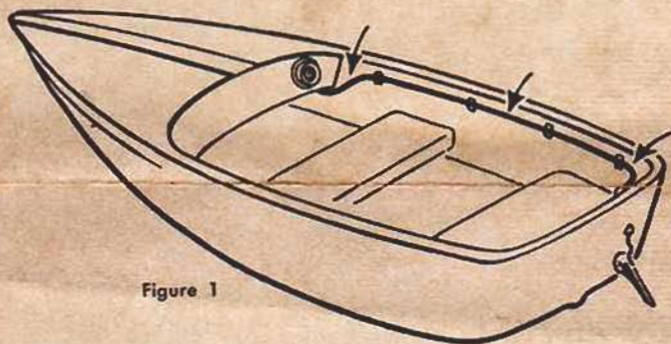


Figure 1

It will be best to begin by deciding upon the location for the speedometer head itself—whether it be centered on the instrument panel or to one side. After the location is chosen, consider now the best place to put the pick-up tube. Usually it is best to choose the same side of the boat as the speedometer head as this would tend to shorten the distance between the two components.

Proceed now to install the pick-up tube.

1. Locate pitot assembly on lower portion of boat transom. Pitot assembly base should be only  $\frac{1}{8}$  to  $\frac{1}{4}$  inch above boat bottom. (Fig. 1)

- Area ahead of and in line with pitot should be clear.
- Opening in pitot tube should face directly forward on a line parallel with the keel.
- Location should be well clear of outboard motor. On an inboard, locate clear of turbulence caused by propeller backwash, projections through bottom of hull, or rudder.
- Secure pitot assembly to transom, using wood screws or machine screws, lock washers and nuts.

Place coupling nut on end of plastic tubing and position it about an inch from the end so that tubing may be slipped over fitting.

A small amount of non-hardening sealer may be applied to the tube fitting on the pitot tube. Press the plastic tubing onto the fitting and secure with the coupling nut. (Fig. 2)

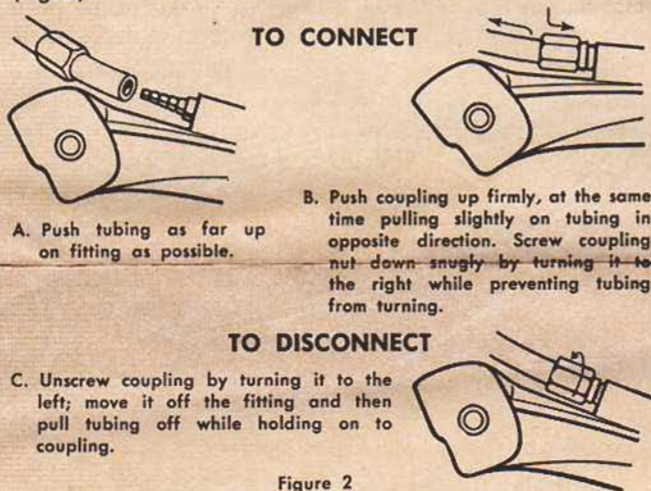


Figure 2

Pull back and up on the Free-Flo Pitot and notice the spring tension in the assembly. (Fig. 3) This tension holds the pitot in the proper position, allows it to lift when necessary, then returns it to the proper angle.

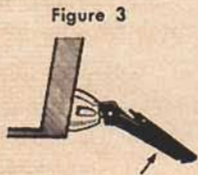


Figure 3

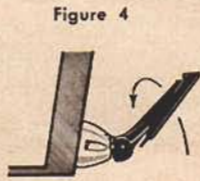


Figure 4

Note how the Free-Flo Pitot can be twisted to either side to be out of the way when launching or beaching the boat. (Fig. 4) Allow slack in the tubing to permit this turning of the pitot.

Lead the tubing up and over the transom and through the boat to the area of the speedometer location. The tubing can be secured by using the plastic clips and screws provided. It is advisable to use one clip on the transom in order to limit movement of the tubing against the transom. If desired, tubing can be run through a small hole in transom above the water line.

When installing tubing through the transom it is necessary to drill a  $\frac{1}{4}$  inch hole through the transom. Maintain a slight angle as indicated in Fig. 5. This hole should be located at some convenient point above the water line that is clear of all steering and motor controls. Make certain that the tubing is not bent sharply or kinked at the point where it leaves the hole and meets the transom surface. Install the tube guard provided for this purpose on the transom exterior.

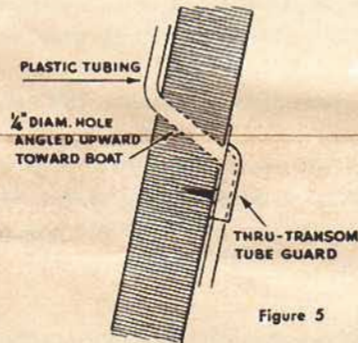


Figure 5

Very careful consideration should be given to tubing location as better operation is obtained when there are no sags or dips in the line that go lower than the top of the transom or point at which tubing enters. The tubing must not be kinked or turned so sharply that the opening in it is pinched or closed. Proceed now to install the speedometer.

A template is furnished for aid in locating the holes required. After making the holes, lead the tubing through the center hole, out from behind the panel and attach it to the fitting on the speedometer, as was done at the pick-up.

Eighteen feet of tubing is supplied as part of the system but any excess may be cut off. Leave sufficient slack at the speedometer for convenience when mounting it. Your dealer can supply more tubing if needed.