

INSTALLATION INSTRUCTIONS

Portable Bracket Kit

Models: 33-161 for the P72 Transducer
33-076-01 for the P74 Transducer



Portable Bracket
Kit 33-161
with P72 Transducer

IMPORTANT: Please read the instructions completely before proceeding with the installation. These directions supersede instructions in your instrument manual if they differ.

WARNING: NEVER USE SOLVENTS!

Cleaners, gasoline, paint, sealants and other products may contain strong solvents, such as acetone, which can attack many plastics dramatically reducing their strength.

Applications

- Mounts on any smooth, nearly vertical surface such as a boat transom or canoe hull.
- Can be adjusted up to 20°.
- When mounted on the transom, the bracket will hold the transducer in place at speeds up to 5kn (6MPH).

Materials Supplied

Upper bracket
Lower bracket
Curved spacer
Spring washer
Nyloc nut
Small screw: #10-32 x 3/4"
Suction cup
Large screw: 1/4-20 x 3/4"
Safety line

Tools Needed

Phillips screwdriver

Assembly (see Figure 1)

1. To join the lower bracket to the upper bracket, insert the small screw through the curved spacer, the lower bracket and the upper bracket. Slide the spring washer and the Nyloc nut onto the screw with the threaded metal side facing the bracket. Tighten the screw; then reverse it 3/4 of a turn.
2. Place the small end of the suction cup in the circular recess in the back of the upper bracket. Insert the large screw in the bracket and tighten it to secure the suction cup in place.
3. Thread the safety line through the hole in the upper bracket. Tie a knot in the end of the line to prevent it from being pulled out (see Figure 2).
4. Compress the arms of the lower bracket and engage the tabs in the transducer's slots.

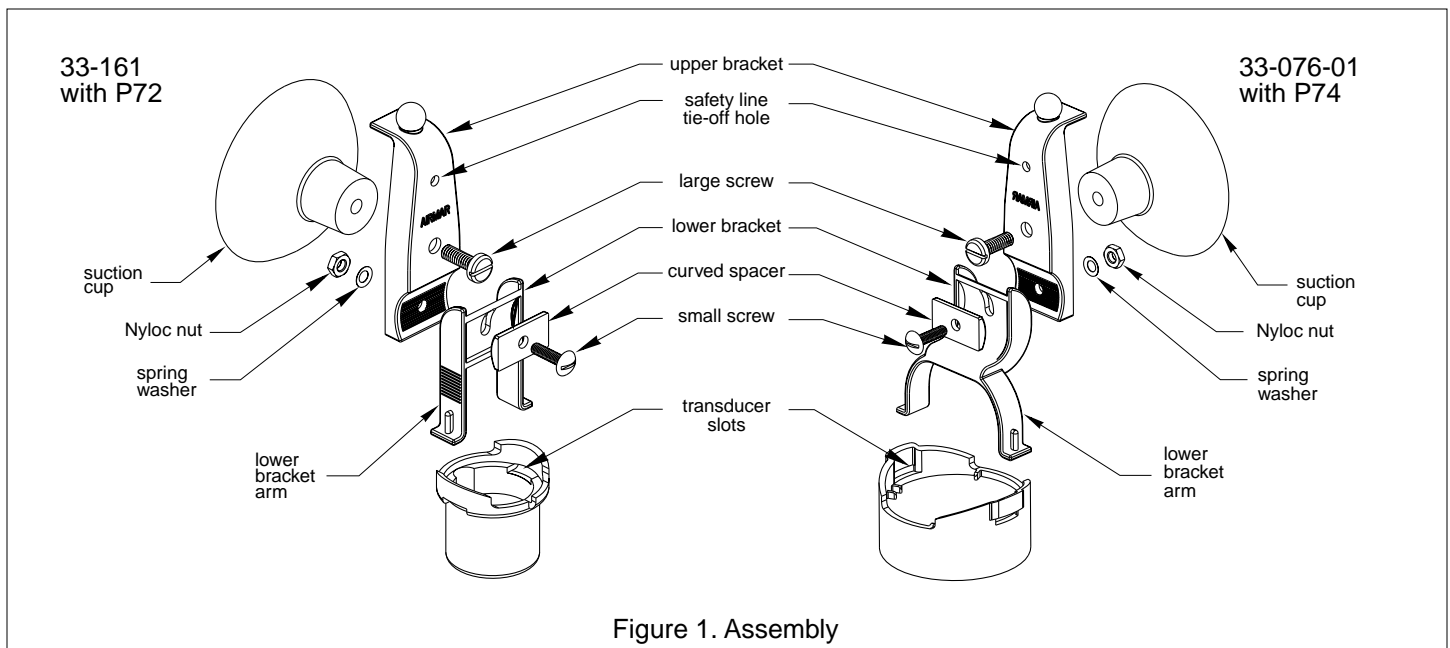


Figure 1. Assembly

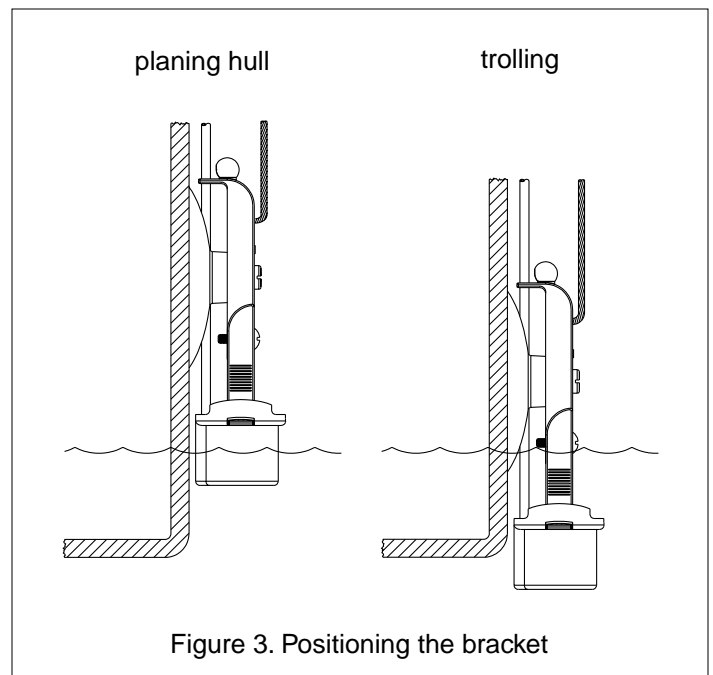
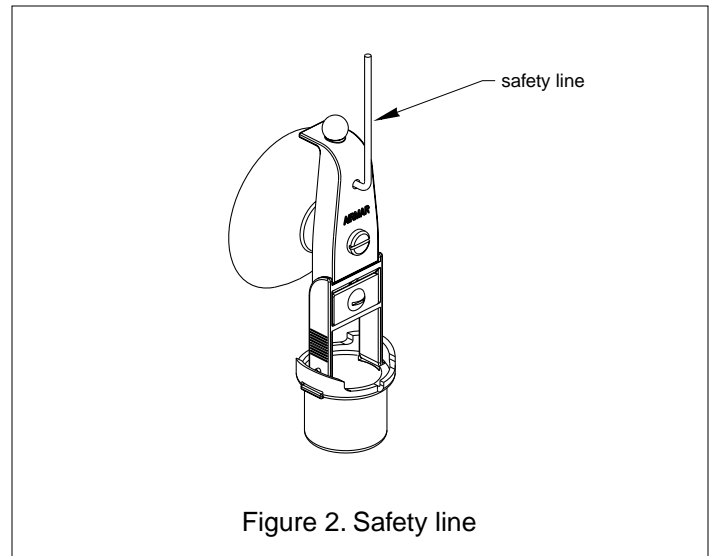
Adjusting the Bracket

For the best performance, direct the soundbeam vertically. The bottom surface of the transducer should be parallel to the surface of the water.

1. Place the bracket with the transducer at the selected mounting location to determine if it will need vertical adjustment.
2. To adjust the angle, hold the bracket in two hands close to the curved spacer and depress the nut with your thumb.
3. Move the lower bracket into the desired position. **Do not** force the adjustment. If the bracket is not easily adjustable, loosen the small screw. If desired, tighten the screw to lock the bracket in position.

Installation

1. **Planing hulls**—Place the transducer above the bottom of the transom but below the water line. It must be out of the water when the boat is traveling at high speed (see Figure 3).
Trolling—Position the bottom of the transducer about 12mm (1/2") below the bottom of the transom (see Figure 3).
2. Clean the mounting location.
3. Wet the mounting surface and push the suction cup against it.
4. Tie the free end of the safety line to a cleat, eye or any secure place allowing only a small amount of slack.
5. Route the transducer cable to the echosounder. Allow about 10cm (4") more slack in the cable than in the safety line. (If the suction cup accidentally comes free, the force will be absorbed by the safety line and not the transducer cable.)
6. Refer to the echosounder owner's manual to connect the transducer to the instrument.



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