

OWNER'S GUIDE & INSTALLATION INSTRUCTIONS

Stainless Steel PRO Bracket to suit TM-258 Transducer

Model: PRO-TMD

IMPORTANT: Please read these instructions completely before proceeding with the installation.

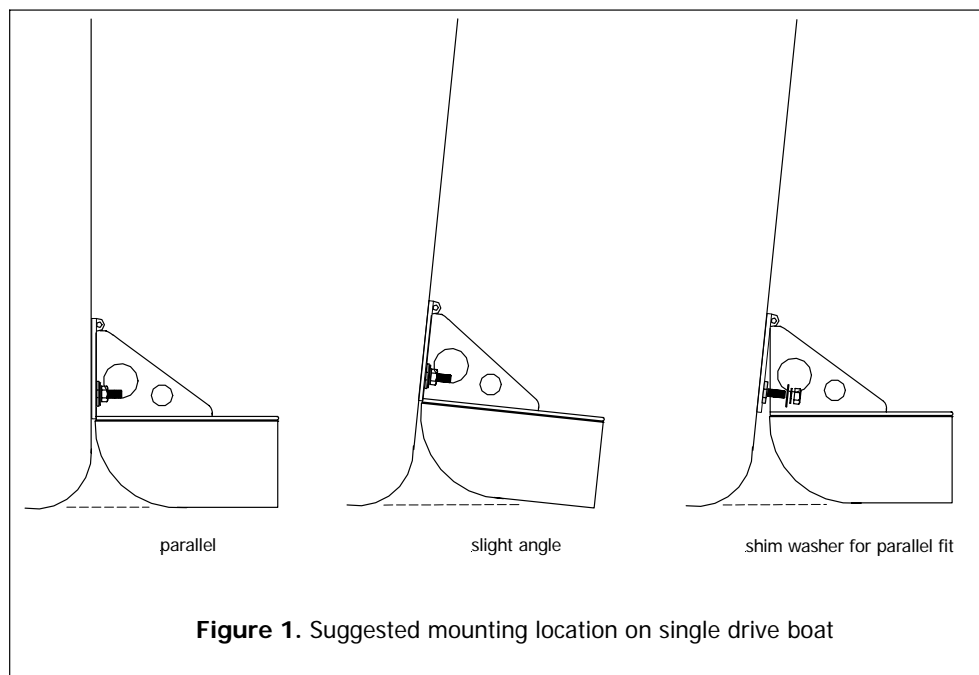
Applications

- Sport fishing vessels
- Suitable for Transom mounting on Trailerable boats
- "Kick-Up" bracket ability protects the transducer from frontal impact only

Mounting Location

General Guidelines

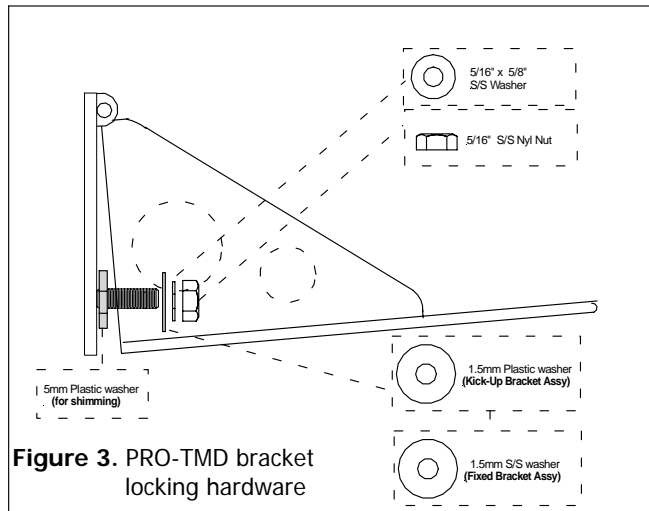
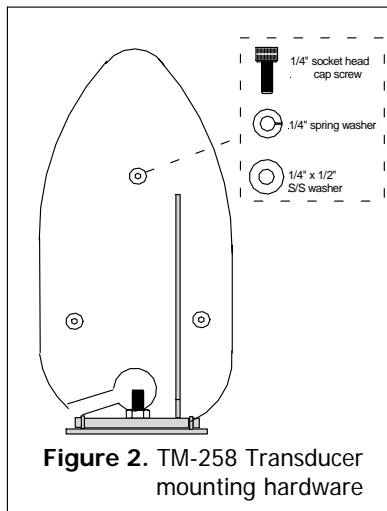
- Mount on the side of the transom where the propeller is rotating downward.
- The transducer should be located so that the water passing over the transducer does not cause a flow disturbance to the propeller.
- The transducer must be submerged in aeration-free and turbulence-free water. Do not mount the Transducer in an area of turbulence or bubbles: near water intake or discharge openings; behind strakes, struts, fittings, or hull irregularities; behind eroding paint (an indication of turbulence).
- Avoid mounting the sensor where the boat may be supported during trailering, launching, hauling, or storage.
- Ideally, mount the bracket above the waterline to minimize the build up of marine growth.



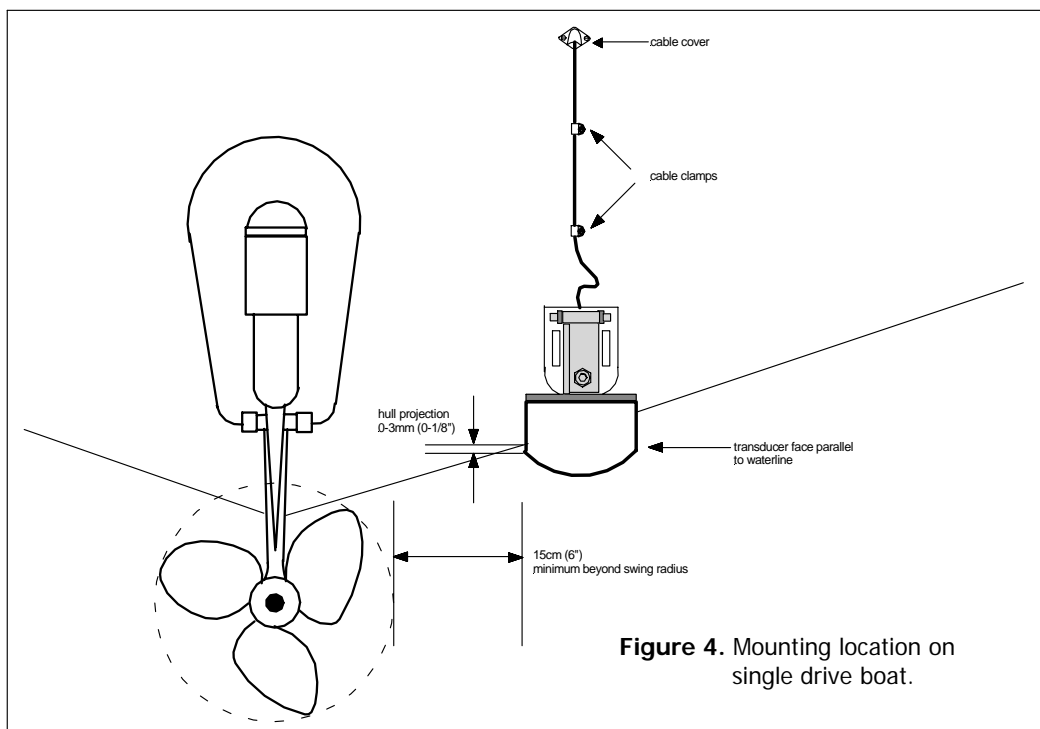
Type of Boat

- **Single drive**—Mount a minimum of 15cm (6") beyond the swing radius of the propeller.
- **Twin drive**—Mount outside the drives a minimum of 15cm (6") beyond the swing radius of the propeller.
- **Trim tabs**—Mount inside the trim tab, space permitting.
- **Drive extension**—Mount as far to the side as is practical.
- **Swim platform**—If the platform interferes with the movement of the transducer, make a cut out to accommodate the transducer and/or shorten the support tube.
- **Stepped transom**—Mount the transducer on the transom above the step. Use a straight edge to position the underside of the transducer even with the underside of the transom.

Installation, Assembling and Positioning



1. Using the 3 hex socket cap screws and a 3/8" wrench, attach the transducer to the mounting shoe (see Figure 2).
 2. With the transducer in the "down" position, hold the transducer assembly at the selected location on the transom. Locate the bottom of the transducer about 0–3mm (0–1/8") below the bottom edge of the transom (see Figure 4).
 3. Depending on the angle of your transom, the Transducer bracket may need a shim washer for the transducer to sit parallel with the waterline (see Figure 1).
- Note: Do not use more than the one 5mm Plastic shim washer provided.**
4. Experiment with the shim washer until the transducer face is parallel to the water surface. If you are satisfied with the mounting location secure the transducer mounting plate by using the supplied hardware (see Figure 3). Alternatively fit a spacer/shim to the transom to offset any large degree of angle error prior to fitting the PRO-TMD Bracket to your vessel.
 5. For "Kick-Up bracket" installation use the 1.5mm Plastic washers provided (see Figure 3).
 6. For "Fixed bracket" installation use the 1.5mm Stainless Steel washer provided (see Figure 3).



Bolting the Assembly

When you are satisfied that the mounting location provides good performance, reinforce the mounting bracket with bolts, washers, and nuts. Since transom thicknesses vary and most installations require a spacer, the installer must determine the appropriate length bolt if external shimming of the Pro bracket is required.

Cable Routing

Route the cable over the transom for a detachable installation. For permanent mounting, route the cable through a drain hole or through a new hole drilled in the transom above the waterline.

Caution: *Never cut the cable or remove the connector; this will void the warranty.*

Warning: *Always wear safety goggles and a dust mask.*

1. If a hole must be drilled through the transom, choose a location well above the waterline (see Figure 4). Check for obstructions such as trim tabs, pumps, or wiring inside the hull. Mark the location with a pencil. Drill the hole using the appropriate size bit to accommodate the connector.
2. Route the cable over or through the transom.
3. On the outside of the hull, secure the cable against the transom using the cable clamps. Position one cable clamp 15cm (6") above the bracket. Mark the mounting hole with a pencil.
4. Position the second cable clamp halfway between the first clamp and the cable hole. Mark this mounting hole.5.If a hole has been drilled through the transom, open the large slot in the transom cable cover. Position the cover over the cable where it enters the hull. Mark the two mounting holes.
5. At each of the marked locations, use a 3mm or 1/8" bit to drill a hole 10mm (3/8") deep. To prevent drilling too deeply, wrap masking tape around the bit 10mm (3/8") from the point.
6. Apply marine sealant to the threads of the #6 x 1/2" self-tapping screw to prevent water from seeping into the transom. If you have drilled a hole through the transom, apply marine sealant to the space around the cable where it passes through the transom.
7. Position the two cable clamps over the cable and fasten them in place. If used, push the cable cover over the cable and screw it in place.
8. Route the cable to the instrument being careful not to tear the cable jacket when passing it through the bulkhead(s) and other parts of the boat. To reduce electrical interference, separate the sensor cable from other electrical wiring and the engine(s). Coil any excess cable and secure it in place with zip-ties to prevent damage.11.Refer to your echo sounder owner's manual to connect the transducer to the instrument.

Checking for Leaks

Warning: *When the boat is placed in the water, immediately check for leaks around the screws and any hole drilled in the hull. Never install a sensor and leave the boat in the water unchecked for several days.*

Material packing list

1 x PRO-TMD S/S Pro Bracket

3 x 1.5mm Plastic washer (for Kick-Up Bracket fitting)

1 x 1.5mm Stainless Steel washer (for Fixed Bracket fitting)

1 x 5mm Plastic washer (for Transducer shimming)

1 x 5/16" S/S Nylok Nut

1 x 5/16" x 5/8" S/S flat washer

3 x 1/4" S/S socket head cap screw

3 x 1/4" S/S spring washer

3 x 1/4" S/S flat washer

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