

Mk2 TRANSOM MOUNT T R A N S D U C E R S

Installation Manual

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Mk2 Transom Mount Aquaducer
(depth, speed, temperature transducer)



Mk2 Transom Mount Depth Transducer



NAVMAN

FCC Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a normal installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an output on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.
- A shielded cable must be used when connecting a peripheral to the serial ports.

Introduction

This manual describes how to install NAVMAN Mk2 Transom Mount Transducers: the Aquaducer (depth, speed, temperature transducer) and the depth only transducer.

What comes with a transducer

- Transducer with mounting bracket and cable [Aquaducer cable 26 ft (8 m), depth only transducer cable 33 ft (10 m)].
- Four mounting screws for transducer.

- Bag with cable cover, two cable clamps and their four mounting screws.
- This installation manual.

Spare parts

These spare parts are available from your NAVMAN dealer:

- Mk2 Transom Mounting bracket.
- Mk2 Aquaducer paddlewheel.
- 13 ft (4 m) extension cable (not suitable for FISH 4100).

Important

It is the owner's sole responsibility to install and use NAVMAN's transducers in a manner that will not cause accidents, personal injury or property damage. The user of this product is solely responsible for observing safe boating practices.

Transducer installation: The choice, location and angle of the transducer is the most critical part of installation. If installation is not correct, the unit can not perform at its designed potential. If in doubt, consult your NAVMAN dealer. Ensure that any holes cut are in a safe position and will not weaken the boat's structure. If in doubt, consult a qualified boatbuilder.

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Governing Language: This statement, any instruction manuals, user guides and other information relating to the product (Documentation) may be translated to, or has been translated from, another language (Translation). In the event of any conflict between any Translation of the Documentation, the English language version of the Documentation will be the official version of the Documentation.

This manual represents the transducer installation procedures as at the time of printing. Navman NZ Limited reserves the right to make changes to specifications without notice.

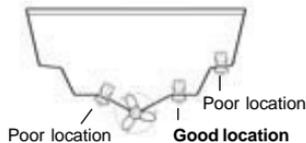
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Position of transducer

Transom mount transducers are suitable for planing hulls less than 26 ft (8 m) long, with outboard or stern-drive power. They are unsuitable for boats with propellers forward of the transom, prominent keels or displacement hulls.

Select a position for the transducer that will:

- Be away from the propellers or propeller wash and on the downstroke side of the propeller(s) (normally the starboard side).
- Have a smooth, clear flow of water at all times, which means that the transducer should not be in line with any hull projections, openings or planing strakes.
- Always have the entire bottom face of the transducer under water, when the boat is stopped or at speed.
- Not interfere with, or be damaged by, launching or retrieving if the boat is trailered.
- Be convenient for the cable to go through the transom into the boat.



Fit the transducer so that its axis is vertical.



Installing

Important: Do not cut the transducer cable to shorten it.

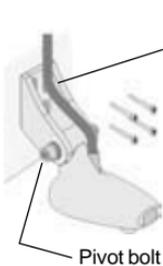
- 1 Select a suitable position for the transducer (see *Position of transducer* - previous page).
- 2 Tear the drilling template from inside the back cover of this manual and cut to size.
- 3 Hold the drilling template in place on the transom.

Mark four screw holes through the template so that they will be positioned in the middle of the transducer bracket's slots:

- For fibreglass (GRP) or wooden hulls, ensure the entire bottom face of the transducer will always be approximately 1/4" (6 mm) beneath the surface of the water, including when the boat is at speed.
- For aluminium hulls, ensure the entire bottom face of the transducer will always be approximately 1/2" (12 mm) beneath the surface of the water, including when the boat is at speed.

Note: Locating the screws at the mid-points in the slots enables the transducer to be moved up or down later.

- 4 Drill the four screw holes 5/64" (2 mm) diameter and at right angles to the transom, so that when the screws are tightened the screw heads sit flat.



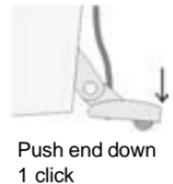
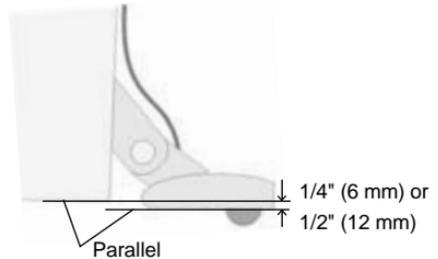
Drill 5/64" (2 mm),
apply sealant in holes
(after adjusting and testing)

Screw transducer onto
transom

Pivot bolt

- 5 Attach the mounting bracket with the four longer stainless screws provided, slide the bracket up or down until the screws are in the middle of the slots, then tighten the screws temporarily.
- 6 If necessary, loosen the transducer pivot bolt so that the transducer can rotate.

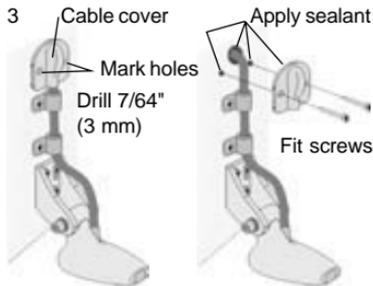
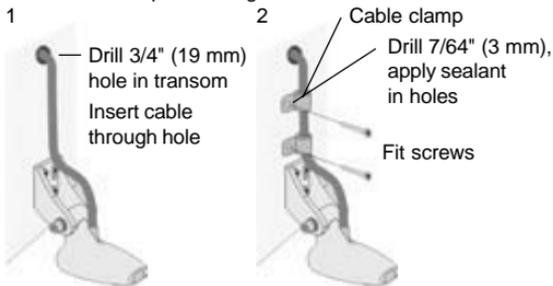
Note: the transducer rotates in 'clicks' of 7 degrees.



- 7 Hold a straight edge on the bottom of the hull and rotate the transducer so that the bottom surface of the transducer is parallel to the bottom of the hull (to the closest click).
- 8 Push the end of the transducer down by one click. Tighten the pivot bolt until the rubber washer on the pivot bolt starts to compress, then add another 1/4 turn. If the transducer kicks up when at speed, then tighten the pivot bolt more.

Note: The face of the transducer should face forward by about 7 degrees when the boat is moving.

If the cable is to pass through the transom:



Drill the hole a safe distance above water line. If you are unsure where to put the hole, consult a qualified boatbuilder. **Do not cut the cable.**

Fit one or two cable clamps on transom to hold cable.

Important: Fit a cable clamp close to the transducer. This may prevent the transducer from causing damage should the bracket break while the boat is moving.

Fit cable cover over cable hole in transom.

Fill the following with sealant:

- Cable hole in transom.
- Inside the cable cover.
- The screw holes.

Wiring

The transducer has a cable to connect it to the navigation instrument. When fitting this cable:

- Keep the cable away from other cables and equipment (for example fluorescent lights, power inverters and VHF transmitters).
- Do not cut the cable.
- If necessary, extend the cable by adding a NAVMAN 13 ft (4 m) extension cable

(a maximum of one cable can be used). Ensure no cable connectors lay in the bilge.

Note: The FISH 4100 cannot use this extension cable.

- Secure the cable at regular intervals.
- Refer to the navigation instrument's installation manual for instructions on how to connect the cable to the instrument.

Adjusting and testing

Adjust and test the transducer after the transducer and instrument have been installed and with the boat in at least 6 ft (2 m) of water.

- 1 With the boat moving slowly, turn the instrument on. If the depth does not display, follow the troubleshooting instructions in the instrument manual.
- 2 Gradually increase boat speed. If the depth does not display then:
 - i Remove any oil from the transducer by wiping the face of the transducer with mild detergent on a cloth.
 - ii Adjust the angle of the transducer by pushing the end down another click.
 - iii Loosen the screws then slide the transducer mounting bracket down or up in steps of 0.1" (2.5 mm) to achieve best high

speed performance. Several adjustments might be required to find the optimum position.

- iv Review the position of the transducer (see *Position of transducer* at the beginning of this manual).
- 3 Once adjustments are completed, ensure that all screws are tight, the pivot bolt is tight and all holes are filled with sealant.

Note i: If the transducer kicks up at high speed then the pivot bolt needs to be tighter.

Note ii: If you find that your transducer is causing a 'Rooster tail' then the likely cause is the transducer being mounted too deep. Lifting the transducer mounting on the transom should solve the problem.

Cleaning and maintenance

Clean a transducer with a damp cloth or mild detergent. Avoid abrasive cleaners and petrol or other solvents. When repainting the hull, cover or remove any transducers. Do not paint the transducer. Do not use a high pressure water blast on a speed sensor paddlewheel as it may damage the bearings.

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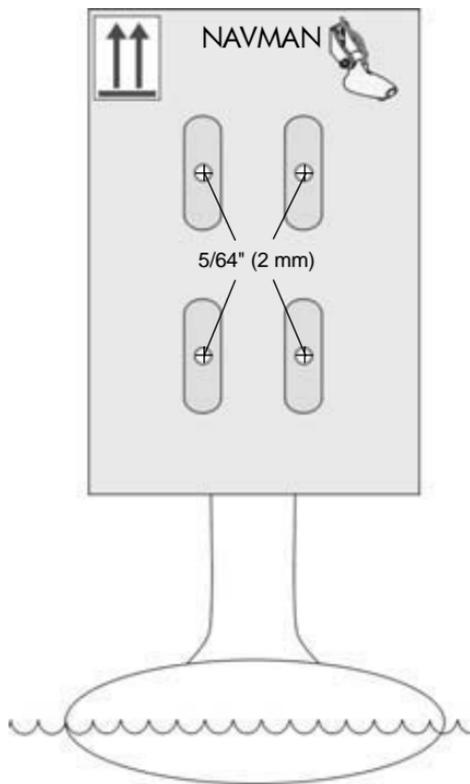
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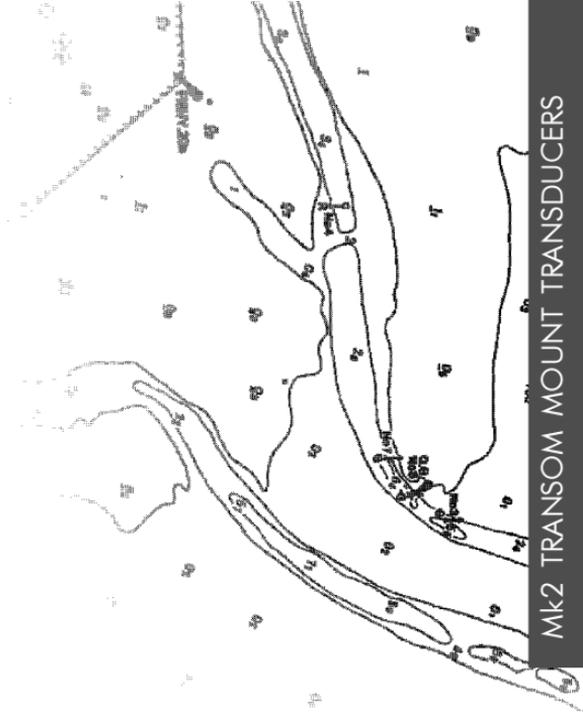
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