

RV-100 Hull / Step Bracket Installation instructions

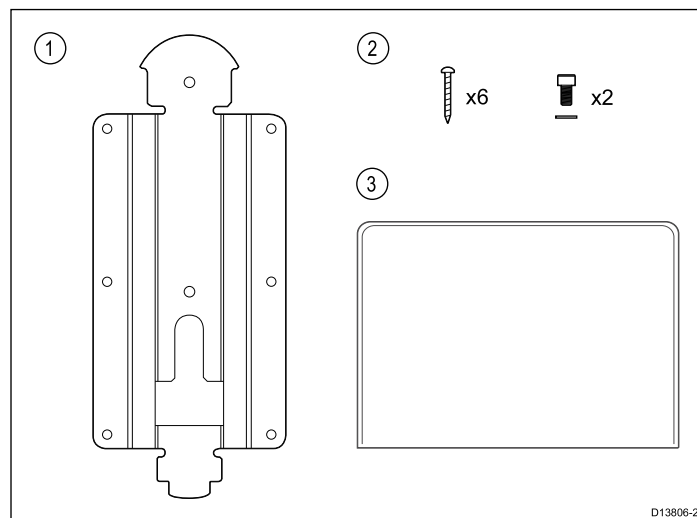
Applicable products

This document is applicable to the following product:

- RV-100 3D Transducer Hull / Step Mount Bracket (A80479).

Parts supplied

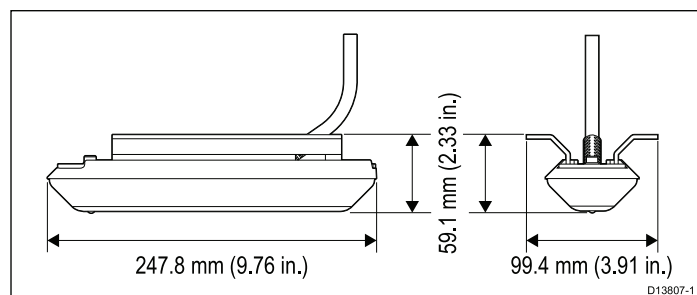
The parts supplied with your product are shown below.



- Hull / Step bracket
- Fixings
- Documentation

Product dimensions - Hull / Step bracket

The transducer's dimensions including the bracket are shown below.



Selecting a location for the Transducer

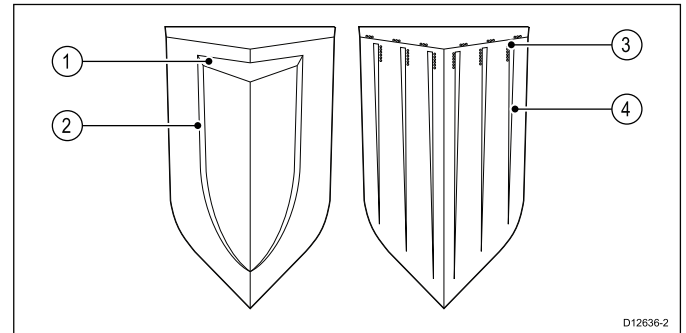
The guidelines below should be followed when selecting a location for your transducer.

Note: The transducer is not suitable for mounting on vessels where the transom is aft of the propeller(s).

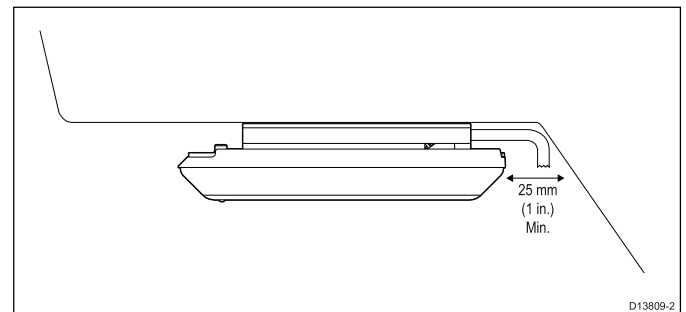
For best performance the transducer must be installed in a location with the least turbulence and aeration.

- The transducer should be mounted on a horizontal surface.
- Mount a suitable distance from the propeller(s) to avoid wake.

- Turbulence can be caused by a number of other factors such as steps (1), ribs (2), rows of rivets (3) and strakes (4). The turbulence appears aft of these locations.



- Air trapped under the front of the vessel can travel under the hull and appear as aeration.
- To simplify cable routing, you can choose whether to install the transducer with the cable exiting towards the vessel's bow, or towards the stern.
- If installing under the step on a stepped transom with the cable exiting towards the vessel's bow, ensure sufficient room is left in front of the bracket to allow for routing the transducer cable.



Note: Optimum transducer location and orientation (bow cable-exit, or stern cable-exit) is dependent on hull type.

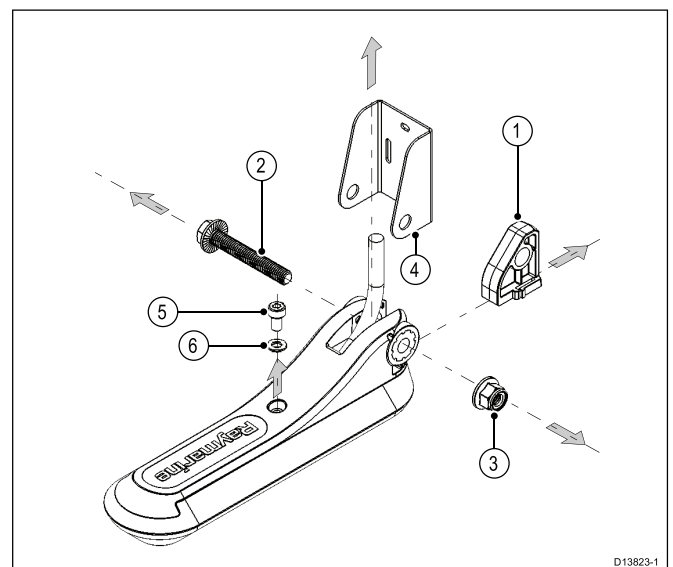
Preparing the transducer

The RV-100 RealVision™ 3D transducer (part number A80464) is supplied already attached to a transducer hanger.

Before mounting the transducer using the accessory bracket, you must remove the transducer from the transducer hanger.

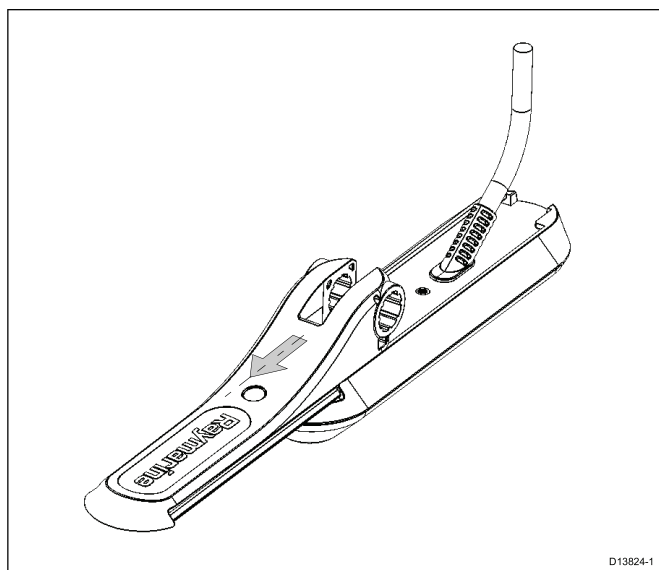
- Remove the bracket fixing bolt (5) and washer (6).

Store the loose parts in a safe place; you will need these parts if you want to mount the transducer on a transom using the standard mounting bracket in the future.



- Using a 4 mm hex key, remove the flanged mounting bolt (2), flanged nyloc nut (3), and mounting bracket (4).
- Slide the plastic chock (1) away from the transducer assembly.
- Remove the transducer carrier from the transducer by sliding the carrier to the rear of the transducer.

Store the transducer carrier in a safe place; you will need this if you want to mount the transducer on a transom using the standard mounting bracket in the future.



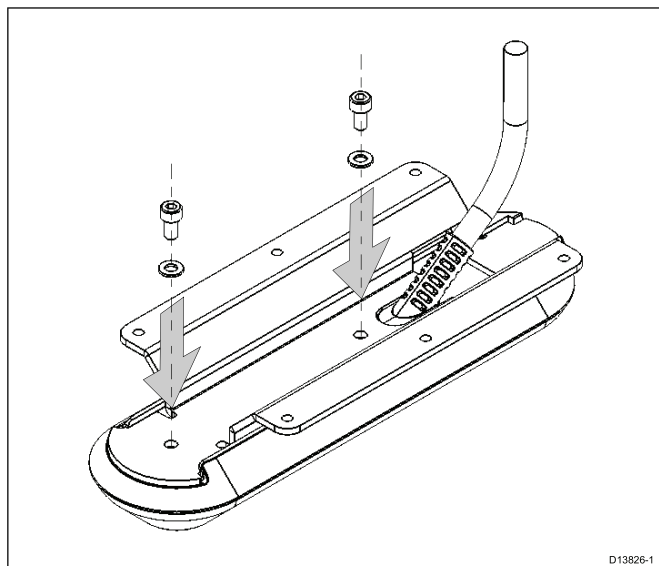
The transducer is now ready for attaching the accessory bracket.

Attaching the Step / Hull bracket to the transducer

With the transducer carrier removed from the RV-100 transducer, you can now attach the Step / Hull bracket.

- Thread the transducer cable-end through the large opening in the Step bracket, then place the bracket on the top surface of the transducer, ensuring that the bracket tabs have slotted beneath the retaining tabs on the transducer. Align the 2 holes on the bracket with the holes on the top face of the transducer.
- Secure the Hull / Step bracket to the transducer. Use a 4 mm hex key to hand tighten both bolts.

Do not overtighten the bolts, as this may damage the transducer.

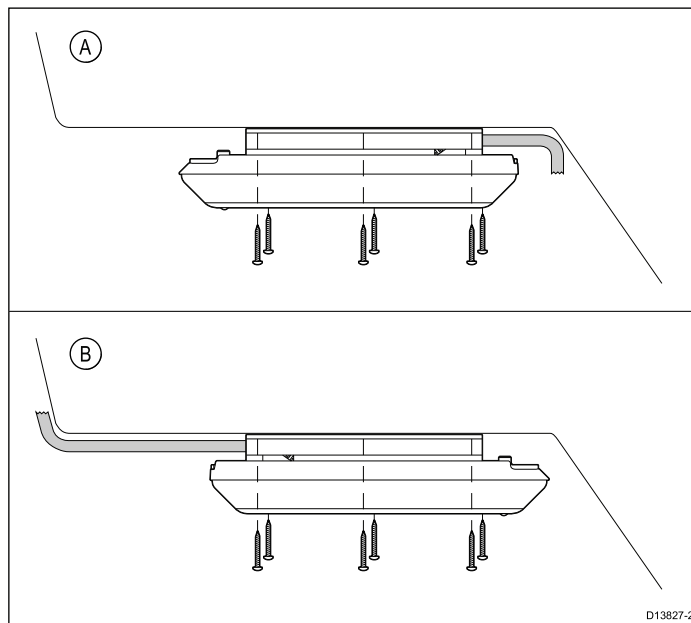


Mounting the transducer

The steps below describe using the bracket to mount the transducer to the hull or the underside of a stepped transom.

Before mounting ensure that you have:

- identified a suitable mounting surface and ensured that there is nothing on the other side of the step (batteries, fuel tanks, etc.) that could be damaged by the drill or mounting screws.
- decided whether to mount the transducer with the cable exiting towards the bow of the vessel, or towards the stern.
- identified the route that the cable will take.



A. Cable exiting towards the bow.

B. Cable exiting towards the stern.

- Hold the bracket with transducer attached in position and mark the surface through the bracket's mounting holes.
- Drill 6 x holes for the fixing screws.
- Fill the holes with marine grade sealant.

To prevent potential damage to plastics, do NOT use sealants containing acetate or silicone.

- Using a pozi-drive screw driver and the screws provided, secure the bracket to the surface.
- Secure the transducer cable run using the supplied p-clips.
- If you have mounted the transducer with the cable exiting towards the stern, complete the following procedure using your multifunction display: [Setting the transducer orientation](#)

Note: The [Setting the transducer orientation](#) procedure is required to ensure that your display plots port and starboard sonar returns on the correct side of the sonar image.

Setting the transducer orientation

If you have mounted the transducer with the cable exiting towards the stern of your vessel, you must enable the **Reverse Port/Starboard** option using your multifunction display.

- From the sonar application, navigate to: **Menu > Settings > Sounder > Reverse Port/Starboard**.
- Enable the **Reverse Port/Starboard** control.

Note: Do NOT enable **Reverse Port/Starboard** if you have mounted the transducer with the cable exiting towards the bow of your vessel.