

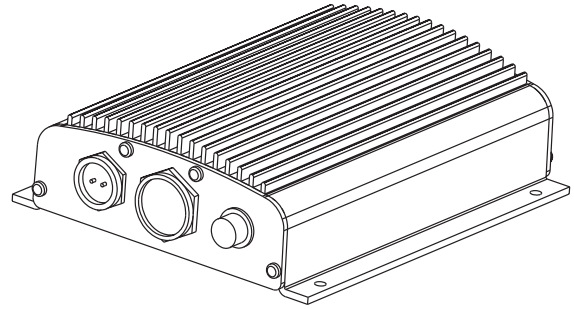
INSTALLATION INSTRUCTIONS

Black Box Fishfinder

GEONAV F170

02/01/06
17-495-01 r01

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



Tools & Materials

- Pencil
- Wire strippers
- Electrical tape
- Screwdrivers
- Safety goggles
- Dust mask
- Electric drill
- Drill bit: 3mm or 1/8"

Installing

1. Choose a convenient mounting location that is well ventilated, cool, and dry, about 1–2m (3' – 5') from the Geonav plotter. If the fishfinder will be mounted on a vertical surface, face the connectors to the bottom to avoid water seeping into the box.
2. Position the fishfinder at the selected mounting location and mark the holes for the screws. *Do not fasten the fishfinder in place at this time.*

Connecting (see Figure 1)

Caution: DO NOT remove any water-proof connectors to ease cable routing. If a cable must be cut and spliced, use Airmar's splash-proof Junction Box No. 33-035 and follow the instructions provided.

Transducer Cable

Install the transducer following the manufacturer's instructions. Route the cable to the fishfinder. *Do not fasten the cable in place at this time.*

GEONAV Plotter Cable

Route the GEONAV plotter cable from the plotter to the fishfinder. *Do not fasten the cable in place at this time.*

Power Cable

Warning: There must be either a circuit breaker or a 2 amp fuse and a switch installed in the power cable within 180mm (7") of the power supply.

1. Route the power cable from the fishfinder to the 12 VDC power supply. Allow an extra 180mm (7") of cable at the fishfinder end to attach the ferrite. At the power supply end, allow 25cm (10") of extra cable for wiring ease.

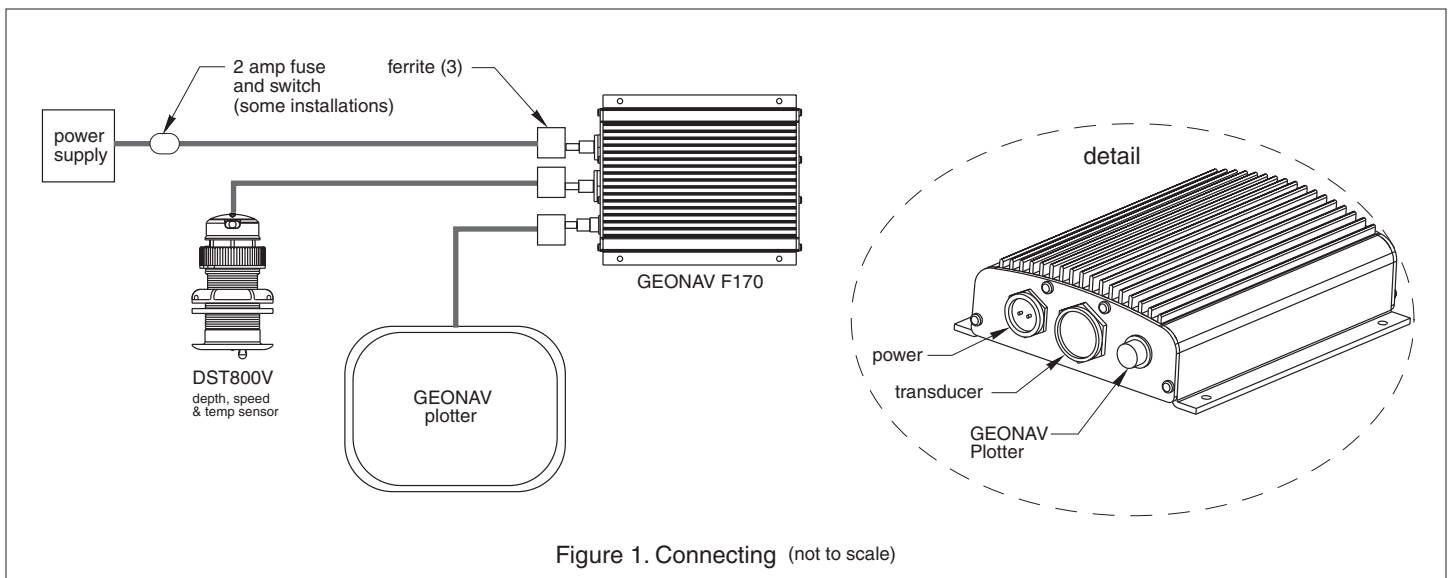


Figure 1. Connecting (not to scale)

Caution: Before cutting the cable, be sure to allow 180mm(7") at the connector end for attaching the ferrite and 25cm (10") at the power supply end for wiring ease.

2. After allowing extra cable for the ferrite and wiring ease, cut the cable to length.
3. Strip 60mm (2-1/2") of the outer jacket and foil shielding from the cut end of the power cable.
4. Strip 11 mm (3/8") of conductor insulation from the end of each insulated wire.
5. Protect the cable's foil shielding from causing a short. Wrap electrical tape around the jacket where the wires emerge from the cable. The tape *must* overlap the wires a minimum of 6mm (1/4").
6. Connect the power cable to the power supply following the color code below:

Red	12 VDC +
Black	12 VDC -

Caution: Connect the power cable to the fishfinder last.

4. Plug both the GEONAV plotter and transducer cables into their designated connectors on the fishfinder (see Figure 1). *Lastly, plug the power cable into the fishfinder.*
5. Fasten all the cables in place.
6. Coil any excess cable and secure it in place with zip-ties to prevent damage.

Parts

Obtain parts from your instrument manufacturer or marine dealer.

Gemeco (USA)	Tel:	843.394.3565
	Fax:	843.394.3736
	email:	sales@gemeco.com

Airmar Europe	Tel:	+45.45.81.04.18
	Fax:	+45.45.81.04.93
	email:	sales@airmareurope.com

Completing the Installation

Warning: Always wear safety goggles and a dust mask.

1. Using a 3mm or 1/8" drill bit, drill the holes for the screws at the selected fishfinder mounting location.
2. Fasten the fishfinder in place using the screws supplied.
3. Attach a ferrite to each cable. Next to the connector at the fishfinder end, loop one of the cables through an opened ferrite (see Figure 2). *Being sure* the connector is against the outside of the ferrite, close the ferrite. Follow the same process for each cable.

Note: To open a ferrite, use the key supplied.

