
VESSELVIEW 502

IMPORTANT: This document guides our dealers, boatbuilders, and company service personnel in the proper installation or service of our products. If you have not been trained in the recommended servicing or installation procedures for these or similar Mercury Marine products, have the work performed by an authorized Mercury Marine dealer technician. Improper installation or servicing of the Mercury product could result in damage to the product or personal injury to those installing or operating the product. Always refer to the appropriate Mercury Marine service manual for component removal and installation instructions.

NOTE: After completing installation, place these instructions with the product for the owner's future use.

Qty.	Description
1	VesselView 502
1	NMEA® harness
1	NMEA® T-connector
1	Template
1	VesselView 502 quick guide

Cutting the Instrument Panel

Preparing the Mounting Location

1. Select a suitable location for the VesselView on the boat's instrument panel.

NOTE: The area behind the panel should be clear of any cables, wiring, or other hardware that may interfere with installation. The mounting location should also provide good visibility from the boat operator's position.

2. Disconnect the batteries powering the gauges or SmartCraft components.
3. Cut out the supplied template.

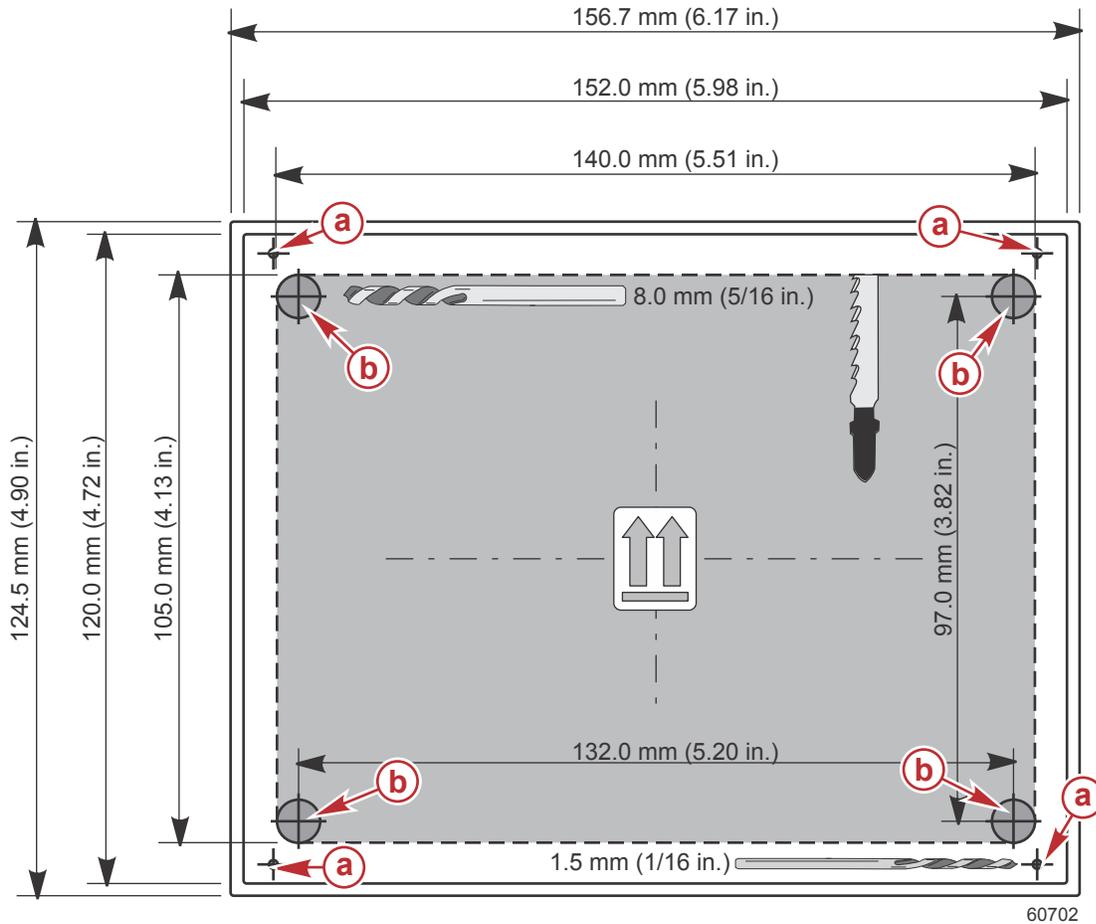
NOTE: Always check the template cutout to the mounting holes on the VesselView before drilling.

4. Use the template to determine the space required for mounting.
5. Prepare the mounting location surface as follows:
 - **Fiberglass panels:** Apply masking tape to the area being cut to prevent cracking the fiberglass.
 - **Vinyl-covered panels:** Use a razor blade to carefully remove the vinyl from the area being cut to avoid tearing the vinyl.

Cutting the Panel

1. After preparing the area to be cut, tape the mounting template to the panel.
2. Drill four 1.5 mm (1/16 in.) holes at the locations shown on the template for the mounting screws.
3. Drill four 8.0 mm (5/16 in.) holes at the locations shown on the template and cut out the shaded portion of the template.
4. Use an appropriate saw to cut out the shaded portion of the template.

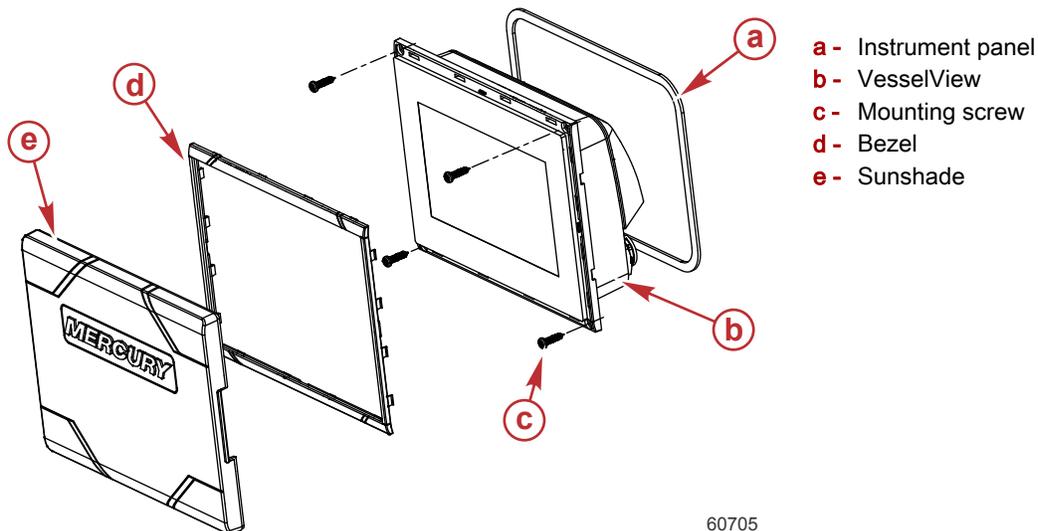
NOTE: The following diagram is an example only. Use the template that came with the kit.



- a** - Mounting screw holes (1.5 mm [1/16 in.]
- b** - Cutout pilot holes (8.0 mm [5/16 in.]

5. Remove the template and insert the VesselView into the panel to ensure fit. Do not secure to the instrument panel at this time.

Securing VesselView to the Instrument Panel



1. Insert the VesselView into the opening.
2. Secure the VesselView with four appropriate size mounting screws: 2.38 mm (3/32 in.) with a head diameter no greater than 5.6 mm (7/32 in.). Do not overtighten the screws.

3. Snap the bezel onto the VesselView.

IMPORTANT: When installed, some of the ports on the VesselView 502 may not be easily accessible. This is not an issue for future software updates, as those updates will be delivered to the VesselView via its integral Wi-Fi module.

DTS Wiring Guidelines

WARNING

Splicing or probing will damage the wire insulation allowing water to enter the wiring. Water intrusion may lead to wiring failure and loss of throttle and shift control. To avoid the possibility of serious injury or death from loss of boat control, do not splice or probe into any wire insulation of the DTS system.

- Never attempt to connect, network, tie into, switch, sink source voltage or current from the DTS wiring harnesses.
- Never attempt to connect any type of communication or navigation equipment into the DTS wiring harnessing other than at the designated connection point.
- Always install boat accessory equipment using an appropriate power source connection, such as a fuse panel or junction box.
- Never attempt to tap directly into any of the DTS electrical wiring harnesses for a source of power.

Wiring Guidelines for Electrical Boat Accessories

WARNING

Excessive voltage drop may compromise the DTS system, leading to serious injury or death from loss of throttle and shift control. Do not wire any electrical accessory into the 12-volt ignition key switch circuits of the DTS system.

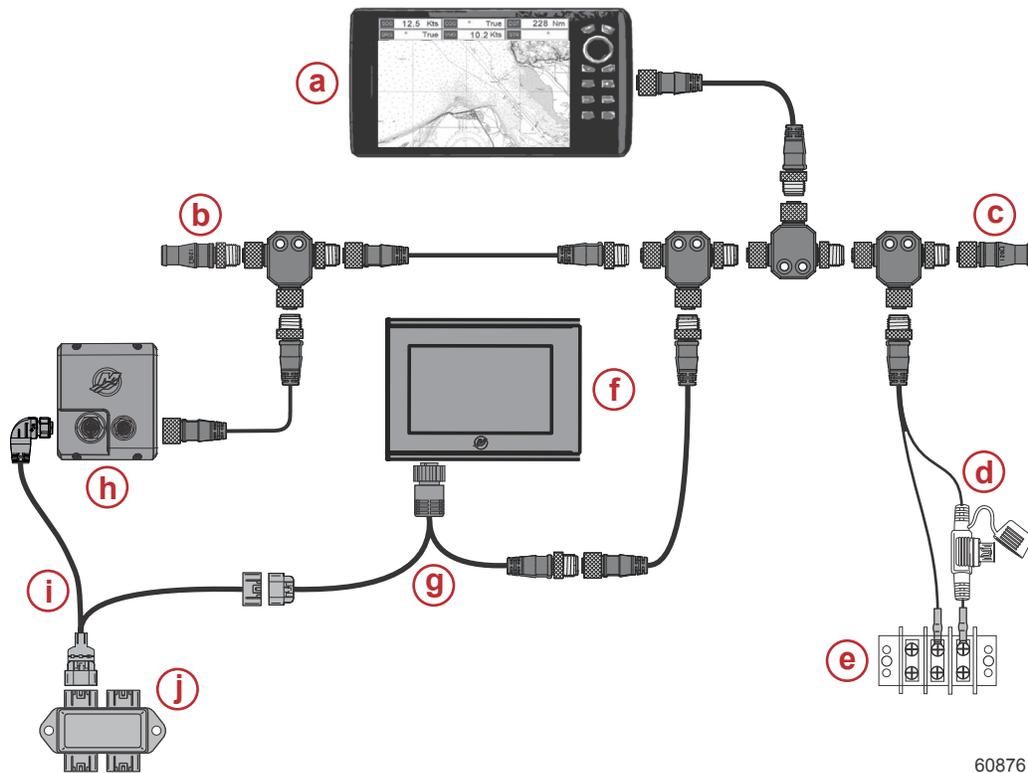
IMPORTANT: Do not connect boat accessories to the ignition key switch. Use a separate, switched 12-volt source for wiring boat accessories.

IMPORTANT: The DTS system requires a consistent 12-volt power source. Splicing or connecting accessories to the 12-volt or ignition key switch DTS circuits (purple, purple/white, or red wires) could blow a fuse or overload circuits, causing intermittent or complete loss of operation.

Harness Installation Guidelines

- Locate an appropriate path for routing the harness connections to their installation points.
- Inspect the routing path to ensure that surfaces are free of any sharp edges or burrs that could cut the harness.
- Fasten and support the harness with clamps or cable ties every 45.8 cm (18 in.) along the routing path. A clamp or cable tie must be used within 25.4 cm (10 in.) of any connection in a DTS system.
- Ensure that all connections are tight. Seal all unused connectors with weather caps.

VesselView 502 Connections



60876

Typical NMEA® communication connection

- a** - Chartplotter or multifunction display
- b** - 120 ohm termination resistor, male
- c** - 120 ohm termination resistor, female
- d** - NMEA® 2000 fused power source
- e** - Power bus
- f** - VesselView 502
- g** - VesselView 502 harness
- h** - VesselView Link controller
- i** - VesselView Link harness
- j** - Junction box

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