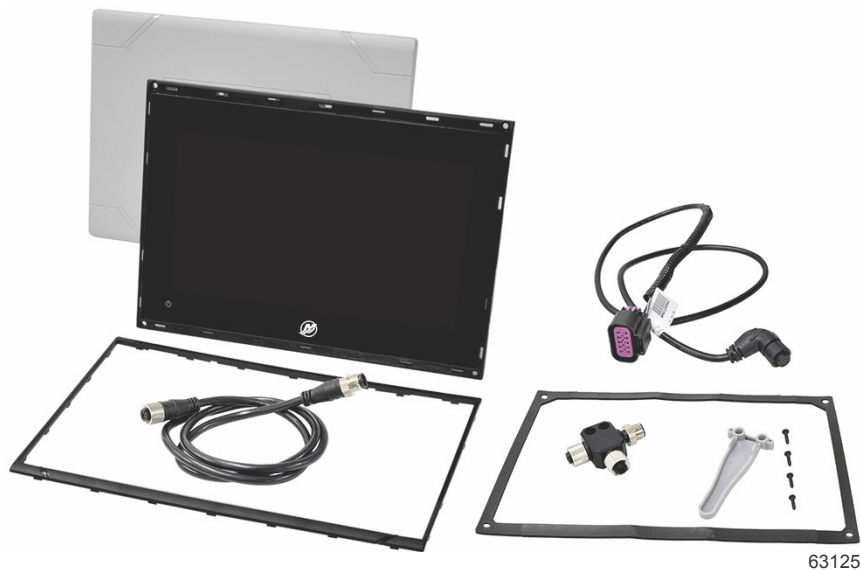# VESSELVIEW 903

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.

Components Contained in Kit

63125

Qty.	Description
1	VesselView multifunction display
1	Sealing gasket
4	Mounting screws—#4 supplied
1	Mounting screw alignment tool
1	NMEA® 2000 T-connector
1	VesselView power harness
1	NMEA 2000 extension harness
1	Bezel
1	Sun cover
1	Template
1	Quick Start guide
1	Operation manual

Notice to Installer

IMPORTANT: The documentation must be consulted in all cases where the symbol ⚠, is marked.

Safety Requirements

IMPORTANT: ⚠ Always refer to the Operation Manual included with each engine for other important safety information. Water depth may vary in identical locations at different times of the day or year. As operator, always monitor water depth. Reduce speed and proceed with caution whenever you're driving a boat in shallow water or in areas where the waters are suspected of having underwater obstacles that could be struck by the underwater drive components, or the boat bottom. Do not use mobile devices as the sole source of navigation, or engine and vessel data.

> ⚠ **WARNING**
>
> Rotating propellers and pinch points can cause serious injury or death. Stay clear of the sterndrive or outboard engine when the engine is running.

> ⚠ **WARNING**
>
> This unit has not been assessed as a safety component and is not to be relied upon as a safety device.

Specifications

IMPORTANT: ⚠ Always refer to the Operation Manual included with each engine for fuse holder location, fuse rating, and electrical system overload protection.

This equipment is only intended for connection to 9–16 Vdc, low voltage, electrical systems of boats or similar marine vessels. Do not connect this equipment to any circuit rated in excess of 16 Vac rms, 22.6 Vpk or 35 Vdc, and only connect to boat electrical systems powered by batteries or alternators or otherwise only to circuits separated from main voltages by at least double or reinforced insulation.

This product must not be installed in a manner inconsistent with the recommended procedures set forth in the installation instructions included with the product. Improper installation or removal of the product can cause injury, or damage to the vessel or engine components.

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.

   NOTE: Ensure the mounting surface is completely flat. Make adjustments to the mounting surface if fastening in place puts the VesselView under tension.

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.
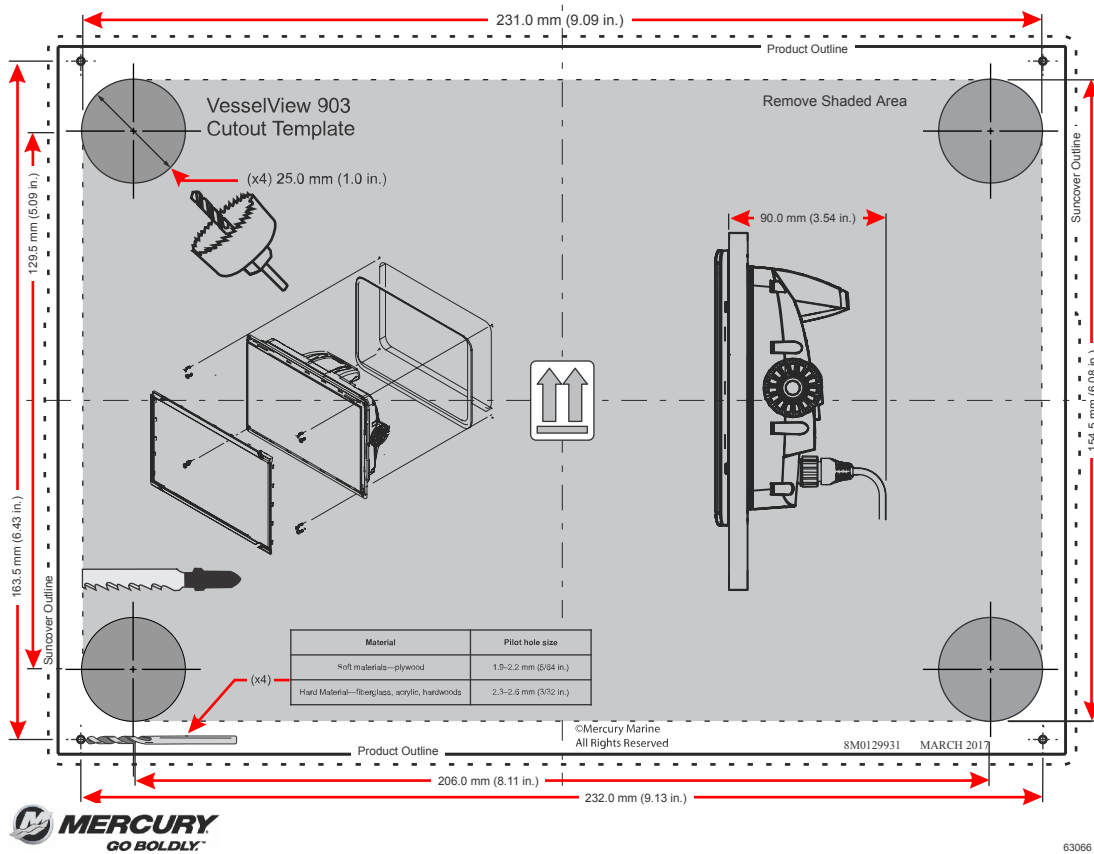
Cutting the Panel

1. After preparing the area to be cut, tape the mounting template to the panel.

2. Drill four pilot holes at the locations shown on the template for the mounting screws. Pilot hole sizes vary based on instrument panel construction material. Follow the specifications in the table below.

Material	Pilot hole size
Soft materials—plywood	1.9–2.2 mm (5/64 in.)
Hard material—fiberglass, acrylic, hardwoods	2.3–2.6 mm (3/32 in.)

3. Use an appropriate tool to cut four 25 mm (1.0 in.) pilot holes at the locations shown on the template.

4. Use an appropriate saw to cut out the remaining shaded portion of the template.

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

VesselView 903
Cutout Template

Product Outline

Remove Shaded Area

(x4) 25.0 mm (1.0 in.)

90.0 mm (3.54 in.)

231.0 mm (9.09 in.)

129.5 mm (5.09 in.)

163.5 mm (6.43 in.)

154.5 mm (6.08 in.)

Suncover Outline

Material	Pilot hole size
Soft materials—plywood	1.9–2.2 mm (5/64 in.)
Hard Material—fiberglass, acrylic, hardwoods	2.3–2.6 mm (3/32 in.)

(x4)

Product Outline

©Mercury Marine
All Rights Reserved

8M0129931   MARCH 2017

206.0 mm (8.11 in.)

232.0 mm (9.13 in.)

MERCURY
GO BOLDLY.™

63066
63128

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

Securing VesselView to the Instrument Panel
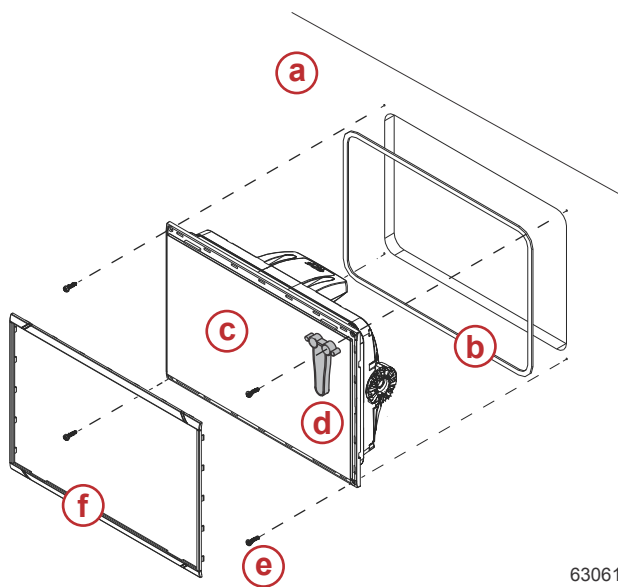
a - Instrument panel
b - Sealing gasket
c - VesselView
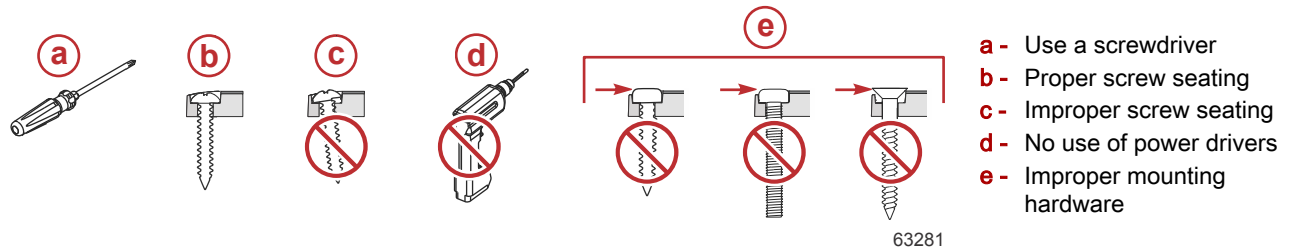d - Mounting screw alignment tool*
e - Mounting screws*
f - Bezel

NOTE: *Four mounting screws and one mounting screw alignment tool are available in parts bag P/N 8M6003966.

63061

1.   Install the sealing gasket onto the back side of the VesselView.

2.   Insert the VesselView with sealing gasket into the opening in the instrument panel.

3.   Secure the VesselView with the four provided mounting screws, using a #1 Phillips head screwdriver.

    IMPORTANT: Use the supplied alignment tool to align the screws and to protect the glass surface from damage during installation.

a. Lay the supplied alignment tool flat against the VesselView glass and align one of the larger guide holes to the mounting hole location. Place the screw into the guide hole; the tool centers and guides the screw into position when driving in the mounting screws. The screws must be located with the head inside, and square with the internal surface of the mounting holes to ensure that the bezel will seat securely to the unit. Do not use a power driver. Do not overtighten the screws.

a - Use a screwdriver
b - Proper screw seating
c - Improper screw seating
d - No use of power drivers
e - Improper mounting hardware

63281

4. Snap the bezel onto the VesselView. Ensure all bezel clips are fully secured onto the face of the VesselView.

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 903 Connections
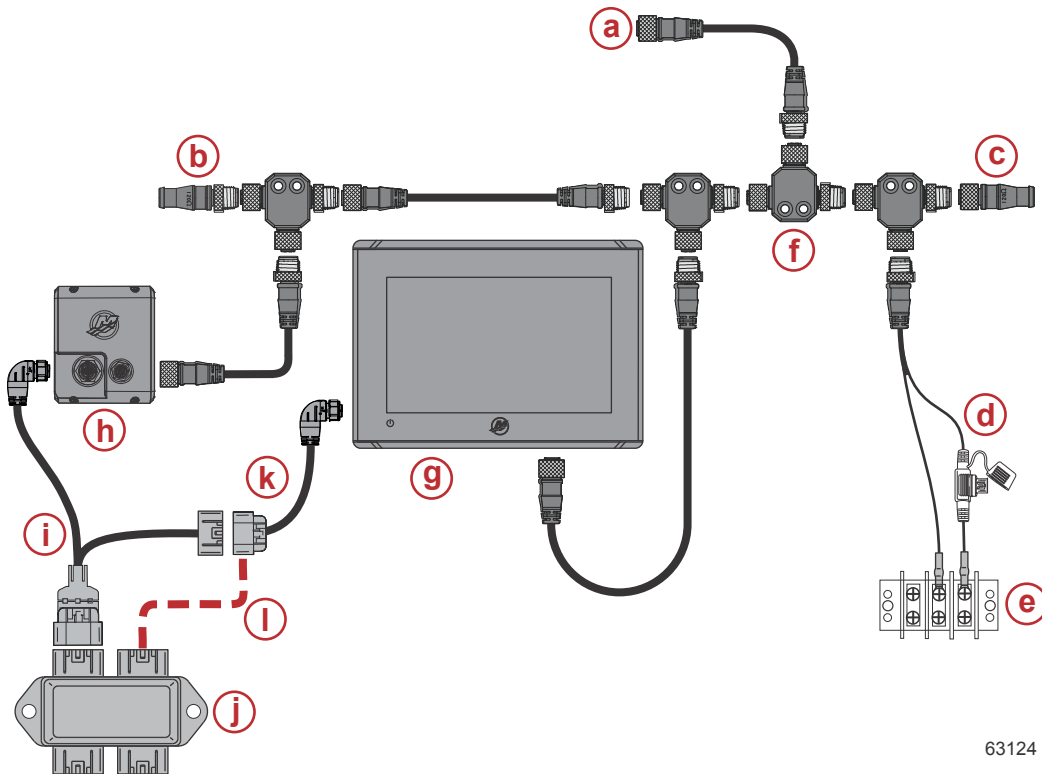
63124

a - Optional connection to 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 - NMEA® 2000 T-connector
g - VesselView 903
h - VesselView Link controller
i - VesselView Link harness
j - Junction box
k - VesselView power harness
l - Optional connection; at second station or when using more than one display per helm