SMARTCRAFT DEPTH TRANSDUCER
WIRING CONNECTIONS

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.

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

Depth Transducer Dirty Water Explanation and its Limitations

A depth transducer is a device that converts variations in one energy form, into corresponding variations of another energy
form. Acoustical depth transducers produce sonic pulses through water to provide an indication of the depth and will show
other reflective variations in the water. The sonic pulse from a transducer is a cone shaped projection.

Depth transducers may produce erratic readings of the depth when the water quality is degraded by reflective materials such
as refuse, mud, oil, or physical objects in the water; plants, animals, air bubbles or turbulence, reducing the transducer
efficiency to lock onto a bottom depth return signal. These conditions are referred to as dirty water. When a depth transducer
encounters this condition, the return echo reflection signal from the dirty water can cause an unstable depth reading, or a
deepth indication that is not accurate.

A depth transducer reading in clean or dirty water conditions, can change rapidly, possibly compromising the vessel because
of conditions underwater any time the vessel is underway. The vessel operator is responsible for understanding water
conditions where the vessel is navigating. The vessel operator should become familiar with the body of water by referring to
nautical charts or communications with other vessel operators, and not rely on the depth transducer only.

Depth Transducer Installation

NOTE: These depth transducers are specially manufactured to be SmartCraft communication compatible.

Install the depth transducer following the instructions provided with the depth finder.

Wire Color Code Abbreviations

<table>
<thead>
<tr>
<th>Wire Color Abbreviations</th>
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</thead>
<tbody>
<tr>
<td>BLK</td>
<td>Black</td>
</tr>
<tr>
<td>BRN</td>
<td>Brown</td>
</tr>
<tr>
<td>GRN</td>
<td>Green</td>
</tr>
<tr>
<td>PINK</td>
<td>Pink</td>
</tr>
<tr>
<td>RED</td>
<td>Red</td>
</tr>
<tr>
<td>WHT</td>
<td>White</td>
</tr>
<tr>
<td>LT or LIT</td>
<td>Light</td>
</tr>
<tr>
<td>BLU</td>
<td>Blue</td>
</tr>
<tr>
<td>GRY</td>
<td>Gray</td>
</tr>
<tr>
<td>ORN or ORG</td>
<td>Orange</td>
</tr>
<tr>
<td>PPL or PUR</td>
<td>Purple</td>
</tr>
<tr>
<td>TAN</td>
<td>Tan</td>
</tr>
<tr>
<td>YEL</td>
<td>Yellow</td>
</tr>
<tr>
<td>DK or DRK</td>
<td>Dark</td>
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Depth Transducer Wiring Connections

NOTE: The transducer wire harness connections are assembled at the factory. However, situations may occur where the
wire harness must be removed from the connector to pass through an opening smaller than the connector. When installing
the wires into the connector, they can only be pushed into the connector one way. Align the wire terminal with the tabs inside
the connector.

1. Route the transducer cable to the engine.
2. Push each wire terminal into its respective position in the wire retainer until they snap in place.
3. Assemble the wire retainer securely into the connector.

Depth Transducer Engine Connections for Verado, OptiMax, MerCruiser with a 4 Pin Engine Diagnostic Test Connector

1. Locate the engine diagnostic test connector on the engine. Refer to the appropriate service manual.
   a. If a depth transducer is installed, disconnect the transducer cable from the engine diagnostic test connector.

2. Connect the diagnostic fuse harness to the engine diagnostic test connector. Refer to the installation instructions with the diagnostic fuse harness.
3. Connect the transducer cable to the diagnostic fuse harness.

- Through-the-hull transducer (reference)
- Transducer cable connector
- Diagnostic fuse harness
- Fuse cover
- 2 amp fuse
- Engine diagnostic test connector

**Triducer Engine Connections for Verado, OptiMax, MerCruiser**

1. Locate the engine diagnostic test connector on the engine. Refer to the appropriate service manual.
   a. If a depth transducer is installed, disconnect the transducer cable from the engine diagnostic test connector.
   b. For a new installation, disconnect the weather cap from the engine diagnostic test connector.

2. Connect the diagnostic fuse harness to the engine diagnostic test connector. Refer to the installation instructions with the diagnostic fuse harness.

3. Connect the transducer cable (black, blue, white, purple) to the diagnostic fuse harness.

4. Connect the temperature/speed sensor connector (brown, red, green, white) to the vessel harness connector.
5. Connect the vessel harness to the engine harness vessel connector.

a - Engine harness vessel connector
b - Engine diagnostic test connector
c - Diagnostic fuse harness
d - Fuse cover
e - 2 amp fuse
f - Transducer cable
g - Vessel harness
h - Fuel 1 sender connector
i - Fuel 2/other sender connector
j - Temperature/speed sensor connector
k - Triducer (reference)

Depth Transducer Engine Connections for OptiMax with a 2 Pin Engine Diagnostic Test Connector

1. Locate the engine diagnostic test connector on the engine. Refer to the appropriate service manual.
2. Connect the adapter harness to the engine diagnostic test connector.
3. Connect the black wire with the ring terminal into the black wire on the adapter harness.
4. Locate an engine ground connection within reach of the black wire ring terminal. Secure the ring terminal to the engine ground connection. Apply Liquid Neoprene to the engine ground connection to prevent corrosion.

<table>
<thead>
<tr>
<th>Tube Ref No.</th>
<th>Description</th>
<th>Where Used</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>25</td>
<td>Liquid Neoprene</td>
<td>Adapter harness ring terminal ground connection</td>
<td>92-257113</td>
</tr>
</tbody>
</table>
5. Connect the purple wire from the adapter harness to the engine harness purple wire.

6. Connect the diagnostic fuse harness to the adapter harness.
7. Connect the transducer cable connector to the diagnostic fuse harness.

- Engine harness purple wire female bullet connector
- Purple wire
- Female adapter harness connector
- Black wire
- Black wire ring terminal
- Engine diagnostic test connector

- Through-the-hull transducer (reference)
- Transducer cable connector
- Diagnostic fuse harness
- Fuse cover
- 2 amp fuse
- Adapter harness