Lowrance PD-WBL Depth Transducer Installation Instructions

The original depth transducer that came with the Lowrance LSM-3 depth module is no longer available. In order to retain the use of the existing LSM-3 depth module, the Lowrance PD-WBL depth transducer can be used as suitable replacement depth transducer.

The Lowrance PD-WBL is not an exact replacement for the original depth transducer and will require some modifications to install and connect to the Lowrance LSM-3 module. The original depth transducer will not be removed from the boat, but is left in place with the transducer wire harness disconnected. The old transducer cable connector end will be spliced into the new PD-WBL transducer wire cable per the instructions below.

The Lowrance PD-WBL transducer is a shoot thru the hull transducer that must be mounted per the Lowrance mounting instructions that come with the transducer unit.

To install the new replacement Lowrance PD-WBL transducer, you will be required to cut and splice the new wire harness into the old harness approximately 1' from the connector at the module.

Note: If you are not qualified to splice the old and new transducer wire harnesses per the following instructions, please contact your Malibu Dealer Service Department for installation.

Lowrance PD-WBL Depth Transducer:

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- **Under the driver's side dash, locate the LSM-3 module, unplug the existing transducer connector and cut the wire ties back approximately 1 -2' depending on clearance available.**

- **Using wire cutters, cut the existing old transducer wire harness approximately 1' from the connector end.**
- **Using wire cutters, cut the equivalent length of wire harness off of the new PD-WBL transducer as the new transducer connector is not compatible with the LSM-3 module connection.**

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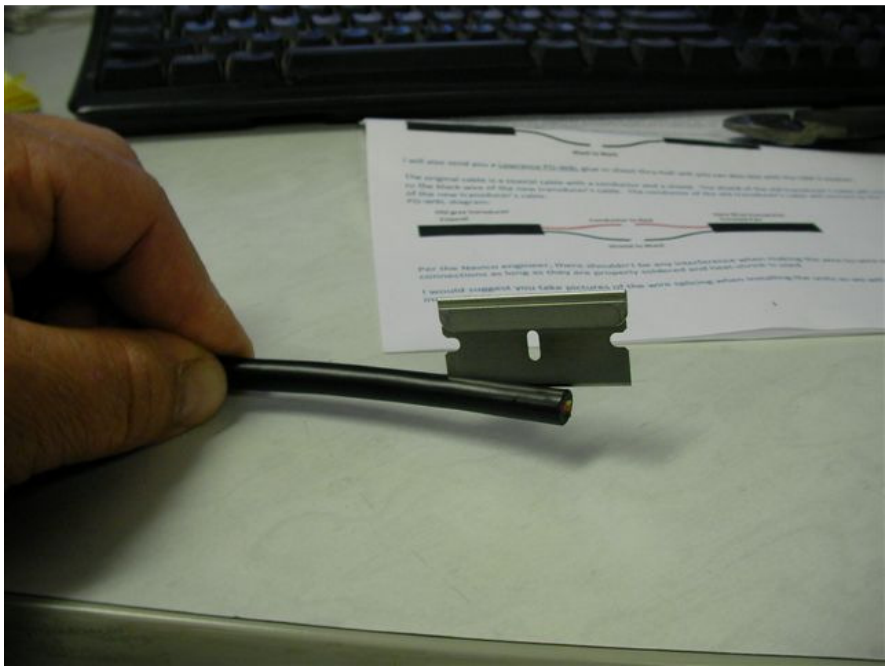
- **Very carefully slice the black wire insulation covering approximately 2” from the end on both the old transducer harness with connector and the new transducer harness.**



- **Very carefully cut the black wire insulation off of each harness end without cutting into the internal wires present.**

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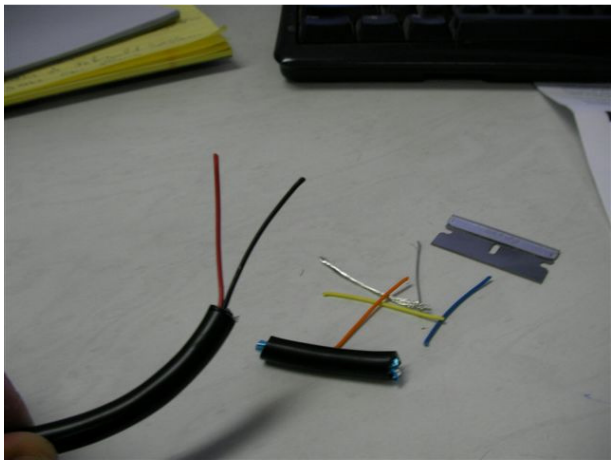
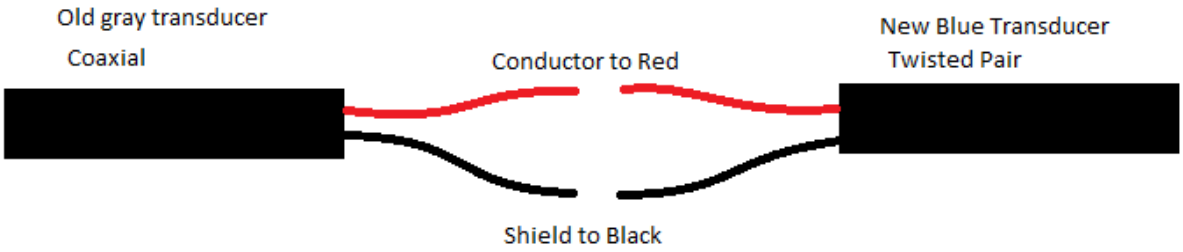
- **After cutting off the black wire insulation, peel back the foil insulation and all wires except the Red and Black wires required on the new transducer harness end.**
- **Cut off all wires except the Red and Black wires as they are not used when splicing to the old transducer wire harness.**



- **Typical wire splicing will be similar to the diagram below. The old transducer harness will usually have coaxial cable with unbraided ground wire. The old coaxial wire will be spliced to the new Red wire. The old unbraided ground wire will be spliced to the new Black wire.**



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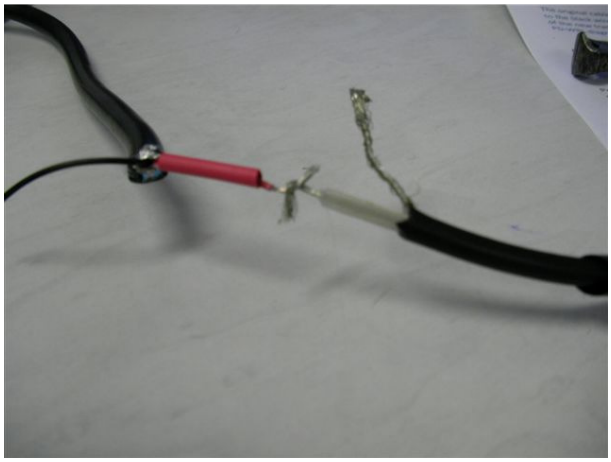
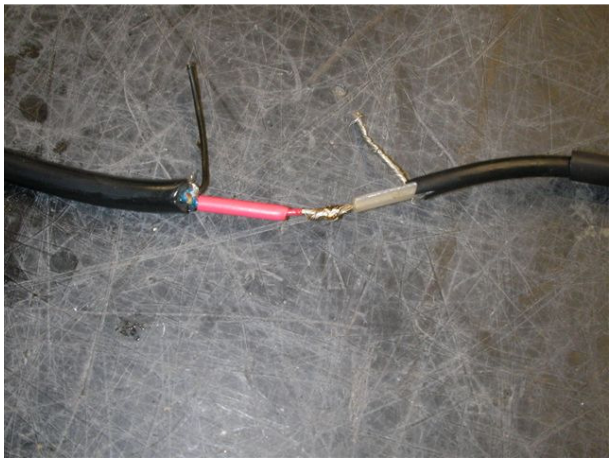
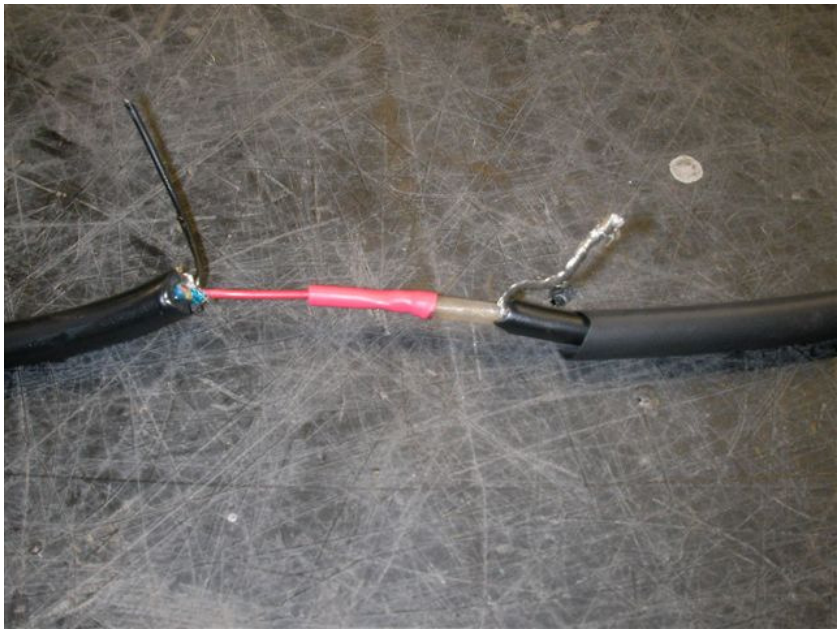
- **It is suggested that you have small diameter heat shrink for the Red wire and larger diameter heat shrink for joining the black harness cable. Both heat shrinks should be placed on the Red wire and black harness cable before connecting any wires.**
- **The Red wire should have a twisted connection to the coaxial wire and then be soldered to insure proper continuity and strength of the wire connection.**





- **Once the Red wire has been soldered to the coaxial cable wire, cover the joint with smaller heat shrink and use a heat gun to shrink and insulate the connection.**



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- **The Black wire should have a twisted connection to the unbraided wire in the old transducer cable with connector and then be soldered to insure proper continuity and strength of the wire connection.**

- **Once the Red wire and Black wire have been soldered, cover joint with the larger heat shrink and use a heat gun to shrink and insulate the connection.**

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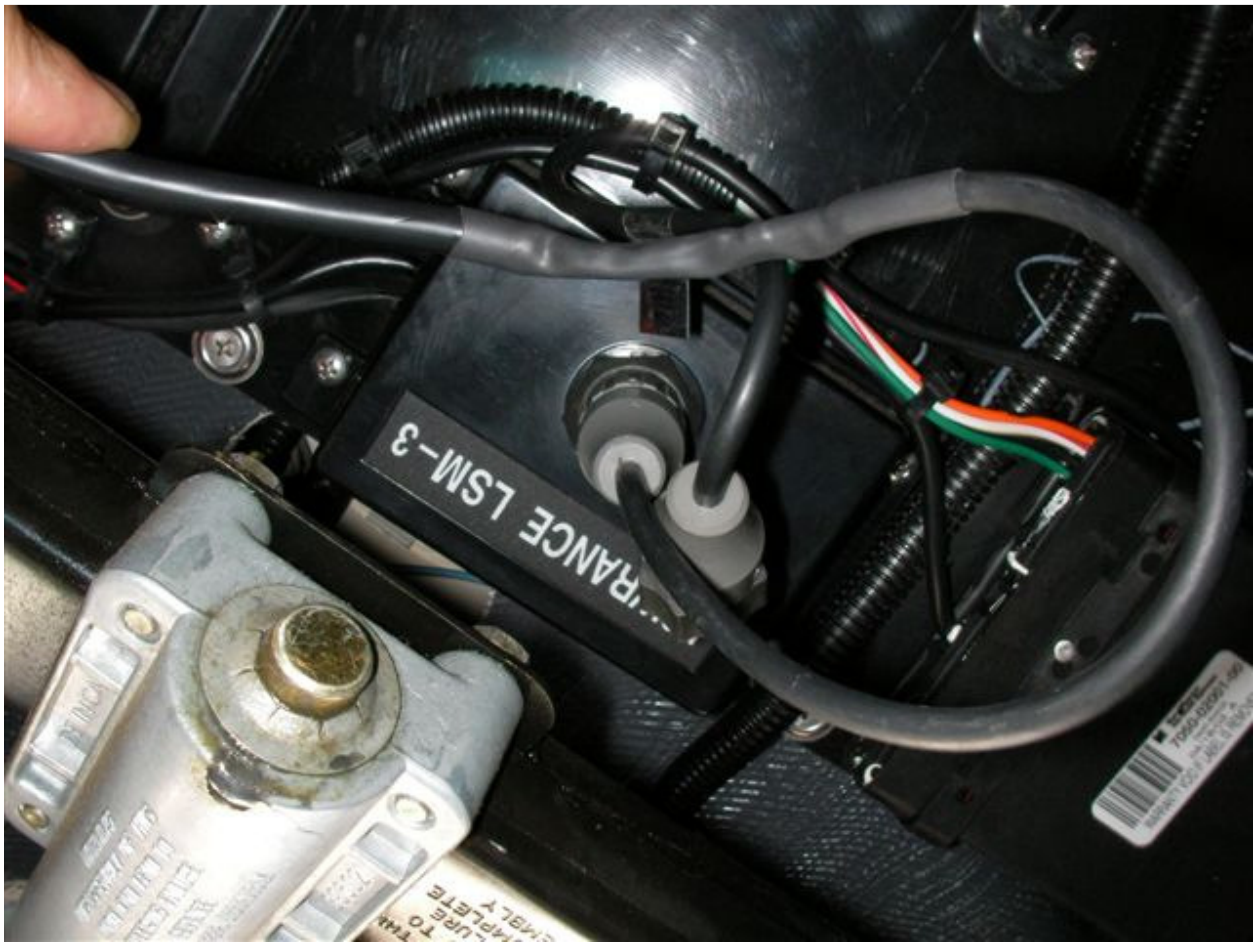
- **Once the connection of the new transducer harness is complete, locate the mounting area for the transducer per the Lowrance mounting instructions.**
- **Route the new transducer connector end from the transducer mounting location through boat hull up to the driver's area under the dash for connection into the LSM-3 depth module.**
- **If possible, route the transducer coble away from other wiring on the boat. Electrical noise from engine wiring can be displayed on the screen. Noise from bilge pumps and aerators can also be picked up, so use caution when routing the transducer cable around these wires.**



Reference Medallion transducer part number: 7050-12001-01

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