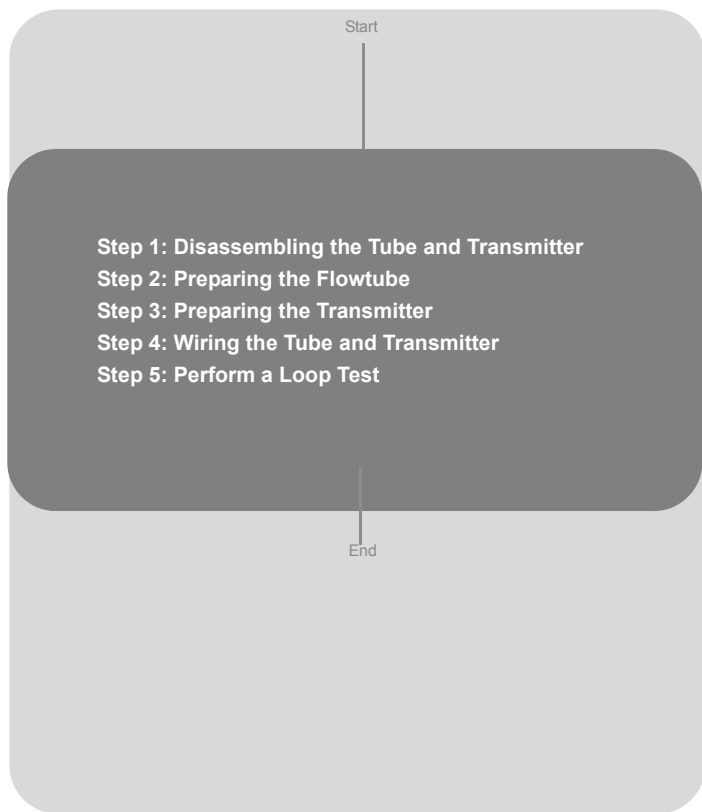


Integral Mount to Remote Mount Conversion



ROSEMOUNT

www.rosemount.com



EMERSON
Process Management

Rosemount 8700 Series

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IMPORTANT NOTICE

This installation guide provides basic guidelines. It does not provide instructions for detailed configuration, diagnostics, maintenance, service, troubleshooting, or installations. Refer to the Rosemount 8700 Series reference manual (document number 00809-0100-4727) for more instruction. The manual and this supplement are also available electronically on www.rosemount.com.

WARNING

Explosions could result in death or serious injury:

Installation of this transmitter in an explosive environment must be in accordance with the appropriate local, national, and international standards, codes, and practices. Please review the Hazardous Locations Certifications for any restrictions associated with a safe installation. In an Explosion-proof/Flame-proof installation, do not remove the transmitter covers when power is applied to the unit.

Process leaks may cause harm or result in death

- Install and tighten thermowells or sensors before applying pressure.
- Do not remove the thermowell while in operation.

Electrical shock can result in death or serious injury

- Avoid contact with the leads and terminals. High voltage that may be present on leads can cause electrical shock.

Introduction

This document will explain how to change an integrally mounted Rosemount 8732/8742 transmitter to a remote mount system.

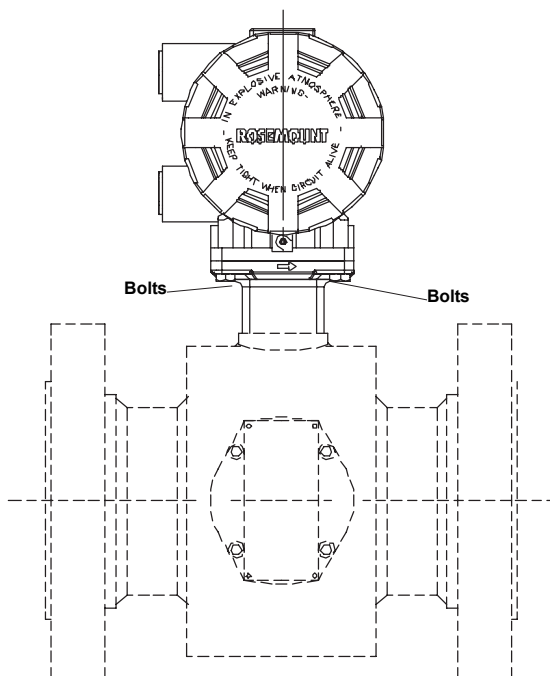
Tools and Parts

- 10 mm Wrench to remove the bolts
- Phillips screwdriver
- Standard screwdriver
- 5 mm Allen Wrench
- Wrench appropriately sized for conduit fittings
- Rosemount spare part kit (08732-0016-0001)

STEP 1: DISASSEMBLING THE TUBE AND TRANSMITTER

1. Shut off the power going to the magnetic transmitter.
2. Remove the cover on the terminal strip side of the electronics housing.
3. Disconnect all wires from the terminal block. This will require a Phillips screwdriver.
4. Remove the conduit and wiring from the transmitter housing.
5. Replace the terminal strip side cover.
6. Open the LOI/Electronics cover.
7. Disconnect the quick connect connectors from the circuit board sockets. See Figure 4.
(For units equipped with a LOI, it will be necessary to remove the LOI to access the connectors. This will require a small standard screwdriver.)
8. Remove the 4 bolts from the mounting plate on the flow tube holding the transmitter in place. This will require the 10 mm wrench. See Figure 1.
9. Carefully lift the transmitter off of the mounting plate.
10. Disconnect the transmitter wiring from the terminal block on the flow tube. This will require a small standard screwdriver. This wiring harness is no longer needed.

Figure 1.

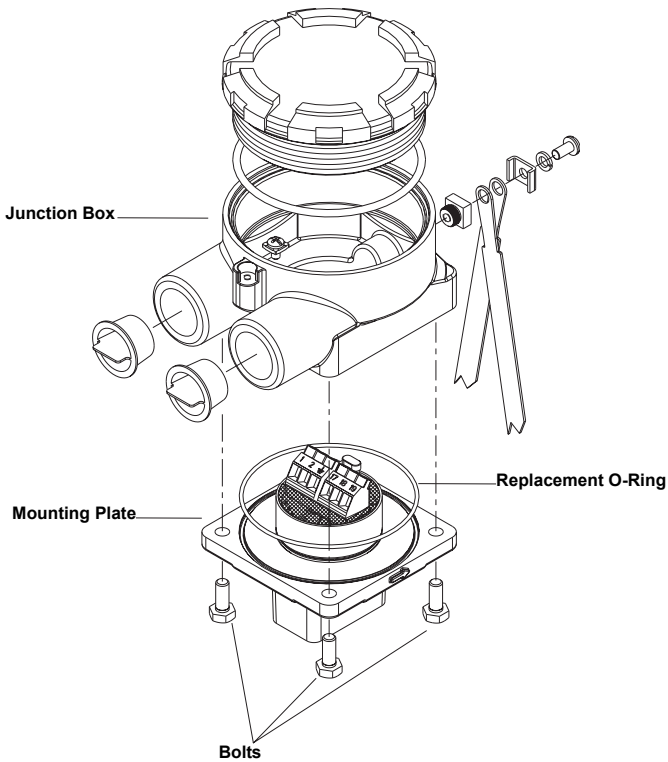


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STEP 2: PREPARING THE FLOWTUBE

1. Remove the existing o-ring and discard appropriately.
2. Replace the o-ring with the new one supplied with the Remote Junction Box in the conversion kit.
3. Place the remote mount junction box on the flowtube mounting plate.
4. Mount the junction box with the 4 bolts provided in the kit. See Figure 2.

Figure 2. Mount the junction box

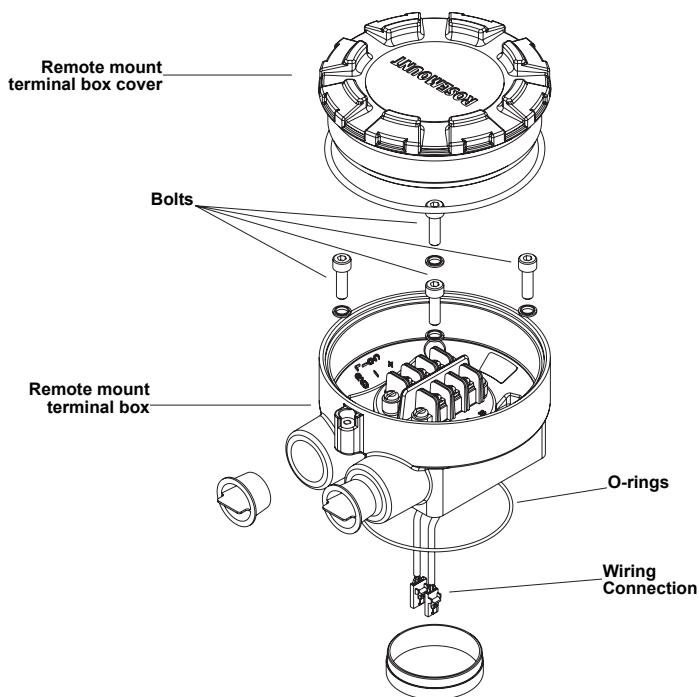


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STEP 3: PREPARING THE TRANSMITTER

1. Position the remote mount terminal box adjacent to the transmitter and carefully feed the wire leads so that they are accessible from the electronics access of the transmitter.
2. Place the O-Ring in the groove on the remote mount terminal box.
3. Mount the remote mount terminal box to the transmitter using the bolts provided. See Figure 3.
4. Connect the wires from the remote mount terminal box to the electronics. Note that the sockets are different sizes so that they can only be connected one way. See Figure 4.
5. Replace the LOI (if applicable).
6. Replace the electronics side cover.

Figure 3.



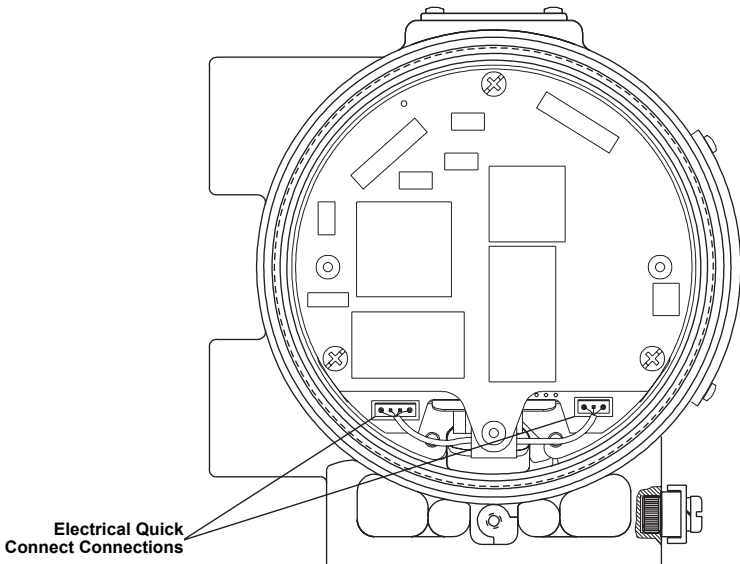
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STEP 4: WIRING THE TUBE AND TRANSMITTER

1. Follow the procedures outlined in the magnetic flow meter manual for making the proper wiring terminations between the Transmitter Remote Terminal box and the Flowtube Terminal Junction Box.
2. Install all conduit and wiring in accordance with all local and plant electrical codes.
3. When the wiring between the flowtube and transmitter are complete, replace the covers to both the flowtube junction box and the remote mount terminal box on the transmitter.

Figure 4.



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