

# Mag Probe

## Assembly Manual



# Notice

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## **DAMAGE CLAIMS / LOST EQUIPMENT**

Thoroughly examine all components and units as soon as they are received. If any cartons are damaged or missing, write a complete and detailed description of the damage or shortage on the face of the freight bill. The carrier's agent must verify the inspection and sign the description. Refuse only the damaged product, not the entire shipment.

## **VEEDER-ROOT'S PREFERRED CARRIER**

1. Contact VR Customer Service at 800-873-3313 with the specific part numbers and quantities that were missing or received damaged.
2. Fax signed Bill of Lading (BOL) to VR Customer Service at 800-234-5350.
3. VR will file the claim with the carrier and replace the damaged/missing product at no charge to the customer. Customer Service will work with production facility to have the replacement product shipped as soon as possible.

## **CUSTOMER'S PREFERRED CARRIER**

1. It is the customer's responsibility to file a claim with their carrier.
2. Customer may submit a replacement purchase order. Customer is responsible for all charges and freight associated with replacement order. Customer Service will work with production facility to have the replacement product shipped as soon as possible.
3. If "lost" equipment is delivered at a later date and is not needed, VR will allow a Return to Stock without a restocking fee.
4. VR will NOT be responsible for any compensation when a customer chooses their own carrier.

## **RETURN SHIPPING**

For the parts return procedure, please follow the appropriate instructions in the "General Returned Goods Policy" and "Parts Return" pages in the "Policies and Literature" section of the Veeder-Root **North American Environmental Products** price list.

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## Introduction

This manual describes how to identify and assemble the components of Standard Magnetostrictive Probes - Form Number 8473 and Low Level Magnetostrictive Probes - Form Number 8493 (available selected areas only). Instructions are included for assembling floats onto the probe shaft, attaching spacer rings to the probe canister, and attaching the probe's cable to the canister.

For guidelines on site preparation, instructions on installing the Mag Probe into a tank, and instructions on connecting wiring from the Mag Probe to the console, refer to the Veeder-Root Site Preparation and Installation Manual.

Some of the installation kit components, such as epoxy packs, will be needed when installing the Mag Probe into the tank. Do not discard any unused parts.

### Contractor Certification Requirements

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Veeder-Root requires the following minimum training certifications for contractors who will install and setup the equipment discussed in this manual:

**Level 1** Contractors holding valid Level 1 Certification are approved to perform wiring and conduit routing, equipment mounting, probe and sensor installation, tank and line preparation, and line leak detector installation.

**Level 2/3** Contractors holding valid Level 2 or 3 Certifications are approved to perform installation checkout, startup, programming and operations training, troubleshooting and servicing for all Veeder-Root Tank Monitoring Systems, including Line Leak Detection and associated accessories.

**Warranty Registrations** may only be submitted by selected Distributors.

### Related Manuals

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576013-879 TLS-3XX Series Consoles Site Prep and Installation Manual

## Mag Probe Installation Kits

### Standard Mag Probe Installation Kit (849600-XXX)

Standard (8473) Mag Probes are shipped with the installation kit listed in Table 1 and shown in Figure 1.

**Table 1.- Standard Probe Installation Kit Contents**

Quantity	Description	Part Numbers
1	Cable	330272-00X
1	2-inch* Product Float	330427-001
1	2-inch* Water Float	330426-00X
1	4-inch* Product Float	330425-001
1	4-inch* Water Float	330424-00X
1	Boot	329523-001
2	3-inch* OD Probe Canister Spacer Rings	329541-002
2	4-inch* OD Probe Canister Spacer Rings	329541-001
1	Cable Seal Kit (CSK)	330020-067

*\*Note: Depending on your order, this kit is shipped with either 2" or 4" floats and 3" or 4" spacer rings.*

### Low Level Mag Probe Installation Kit

Low Level (8493) Mag Probes are shipped with the installation kit listed in Table 2 and shown in Figure 2.

**Table 2.- Low Level Mag Probe Installation Kit**

Quantity	Description	Part Number
1	Cable, 5 feet long (standard size)	330272-001
1	2-inch* Product Float	331027-001
1	2-inch* Water Float	331030-00X
1	3-inch* Product Float	331012-001
1	3-inch* Water Float	331013-00X
1	Boot	331011-001
2	3-inch* OD Probe Canister Spacer Rings	329541-002
2	4-inch* OD Probe Canister Spacer Rings	329541-001
1	Cable Seal Kit (CSK)	330020-067

*\*Note: Depending on your order, this kit is shipped with either 2" or 4" floats and 3" or 4" spacer rings.*

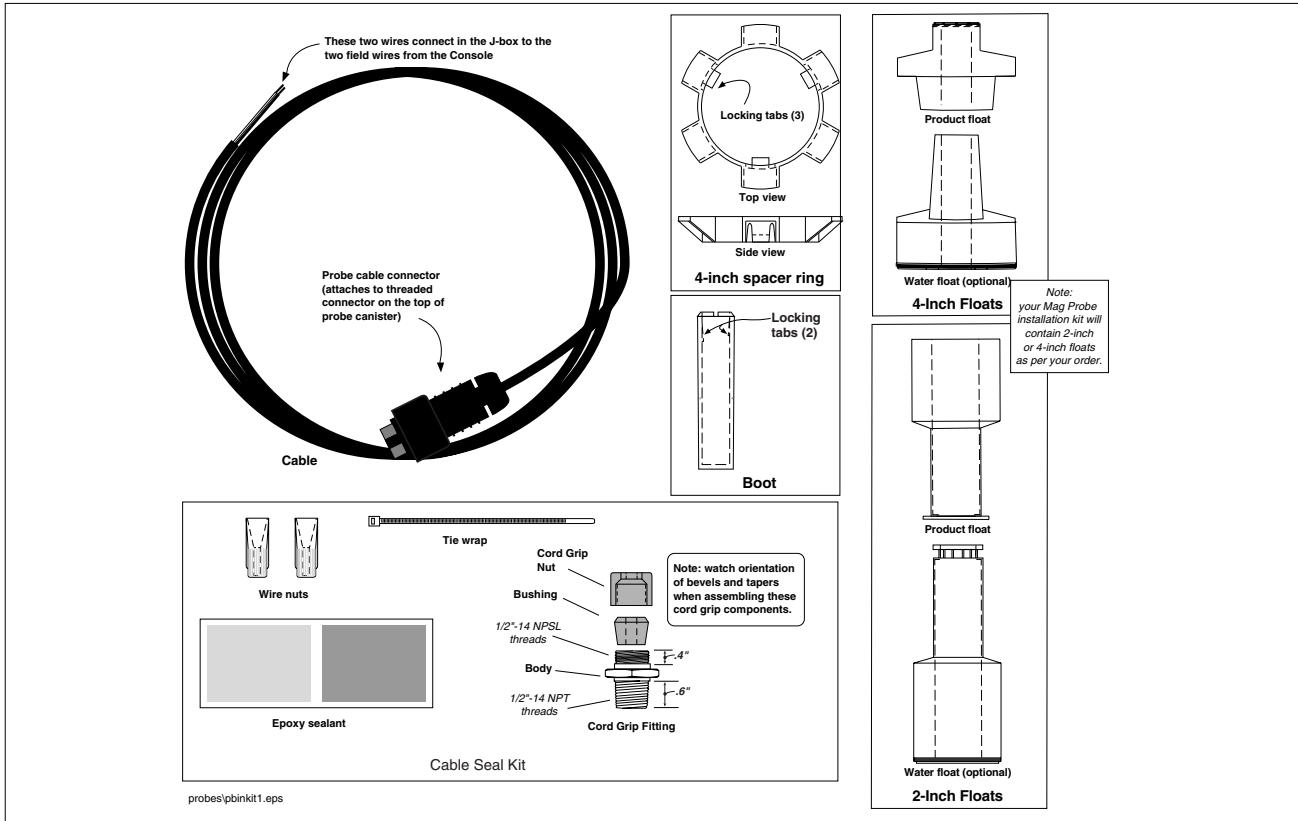


Figure 1. Standard Mag Probe Installation Kit

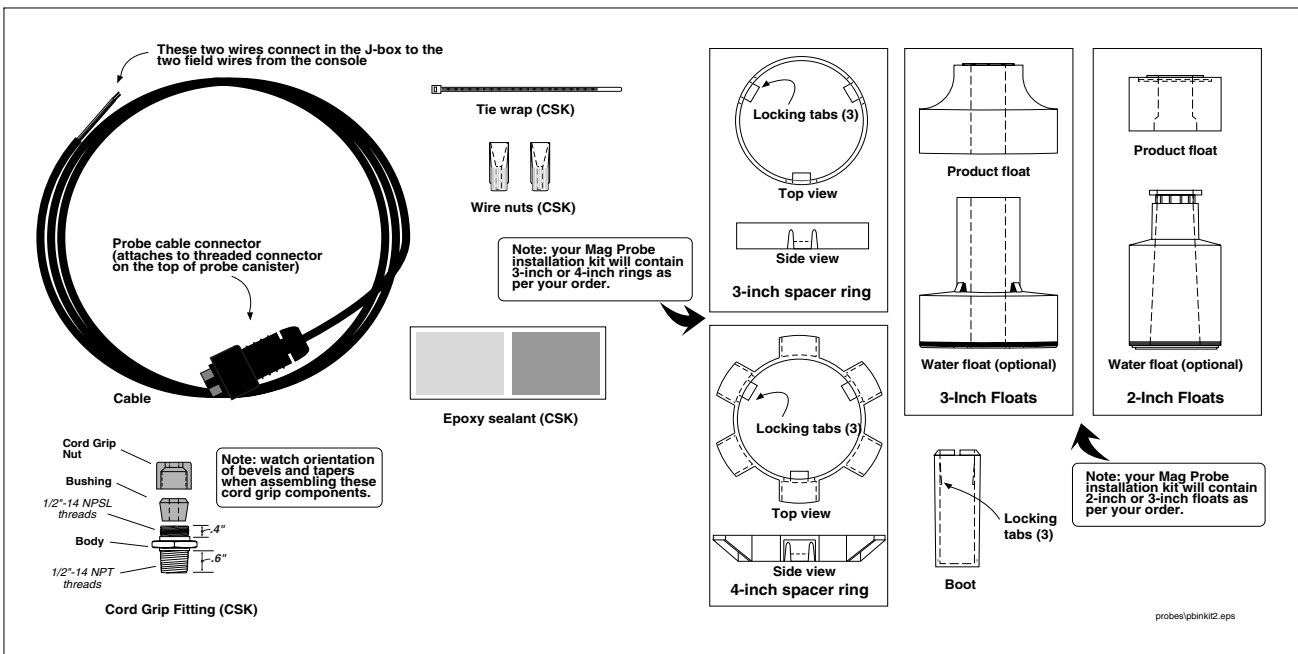


Figure 2. Low Level Mag Probe Installation Kit

## Assembling Mag Probe Components

### Attaching Mag Probe Canister Spacer Rings

1. Open the Mag Probe shipping carton so that you have access to the probe. Also open the installation kit.
2. Following the instructions in Figure 3, install the proper spacer rings (3" or 4") onto the probe canister (although outwardly different, both the 3" and 4" rings are attached in the same way onto the canister).

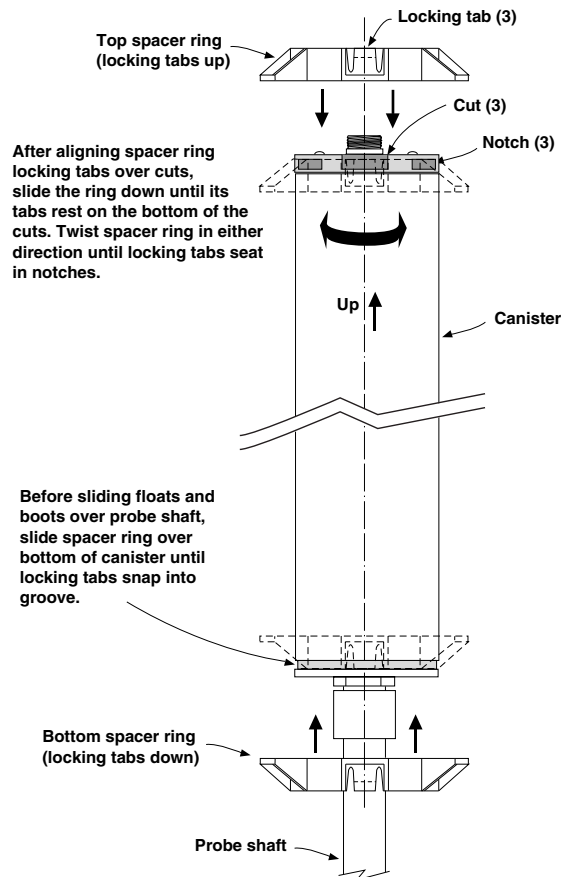


Figure 3. Installing Mag Probe Canister Spacer Rings

### Assembling Floats onto Mag Probe Shaft

The Product floats, Water Floats (if ordered), and Boots from Mag Probe Installation Kits are assembled on 8473/8493 probe shafts in the exact sequence and orientation shown in Figure 4.

**Note: Failure to snap the boot locking tabs into the locking indents on the probe shaft could cause the boot and float(s) to fall into the tank.**

Water floats must be installed, if ordered, for the Mag Probe to operate correctly.

Handle the Mag Probe carefully. Striking or dropping the probe will result in loss of calibration and could cause permanent damage.

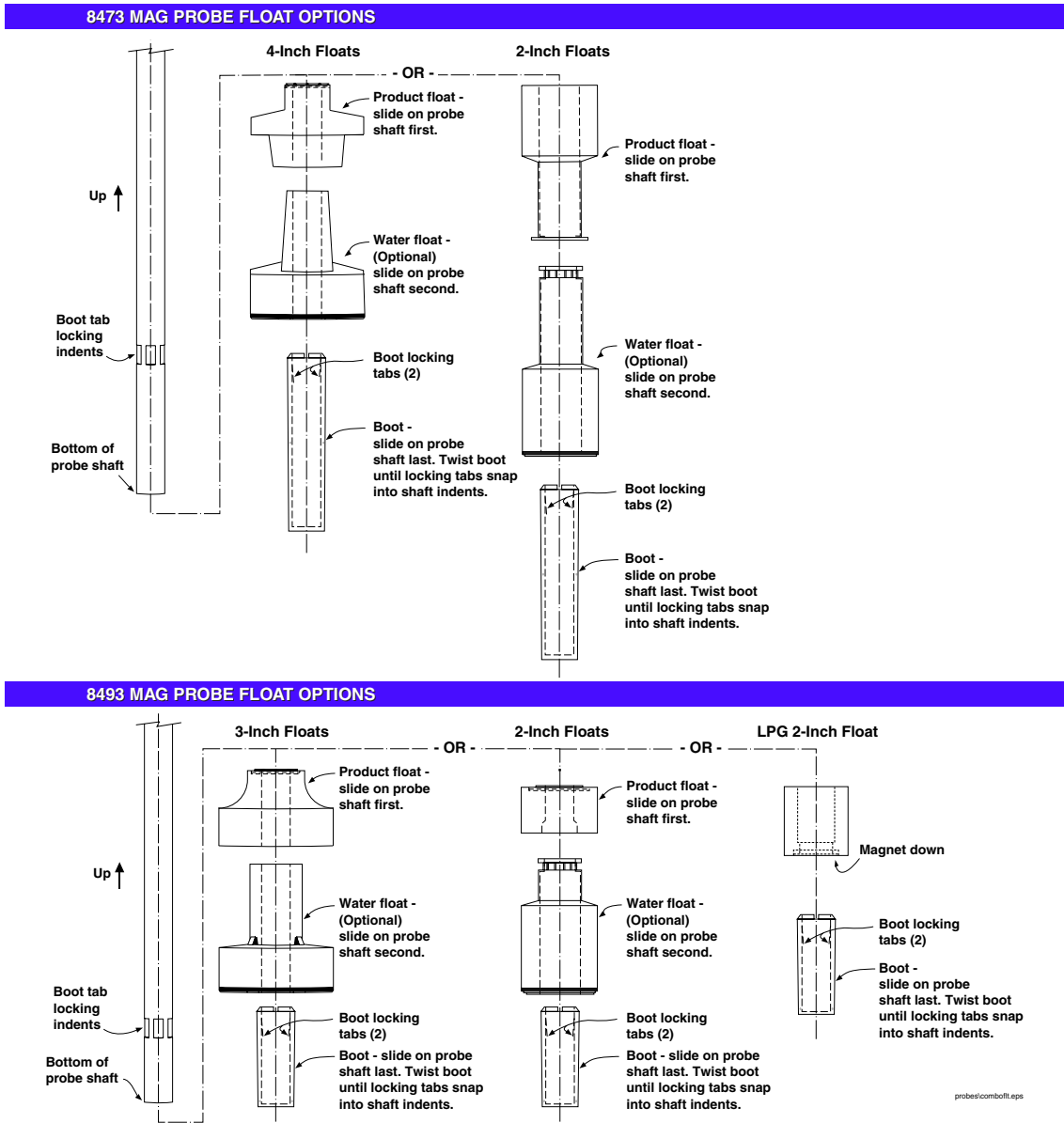


Figure 4. Mag Probe float installation

## Attaching Cable Connector to Probe Canister

Attach the connector end of the Mag Probe cable to the threaded connector on top of the probe canister and tighten down the integral nut.

This completes the Mag Probe assembly. Save the remaining kit components. They will be needed to install the Mag Probe into the tank (reference the console Site Prep and Installation manual).



