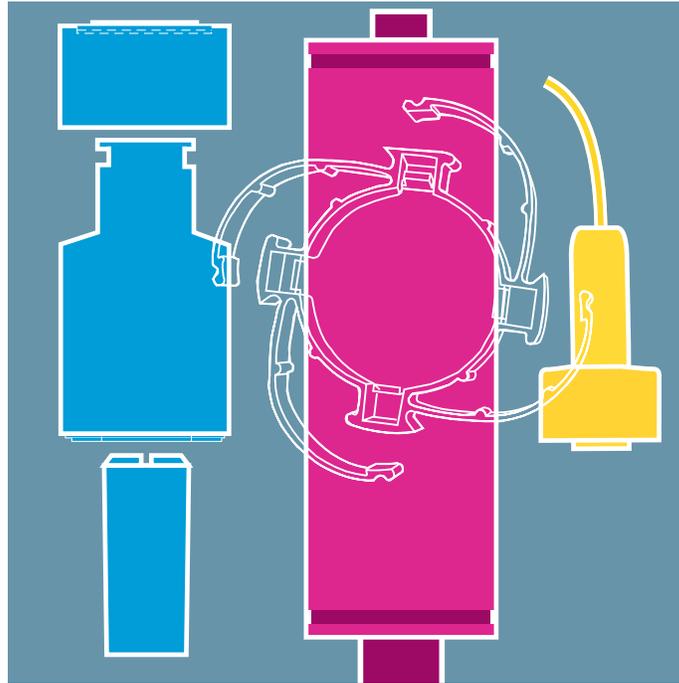


Mag 1 & 2 Plus! Probes

Assembly Guide



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For complete warranty, technical support, and additional product information, refer to your console's Operator Manual.

DAMAGE CLAIMS

1. Thoroughly examine all components and units as soon as they are received. If damaged, write a complete and detailed description of the damage on the face of the freight bill. The carrier's agent *must* verify the inspection and sign the description.
2. Immediately notify the delivering carrier of damage or loss. This notification may be given either in person or by telephone. Written confirmation must be mailed within 48 hours. Railroads and motor carriers are reluctant to make adjustments for damaged merchandise unless inspected and reported promptly.
3. Risk of loss, or damage to merchandise remains with the buyer. It is the buyer's responsibility to file a claim with the carrier involved. Immediately advise your Veeder-Root representative, distributor, or the factory so that we may assist you.

RETURN SHIPPING

For the parts return procedure, please follow the instruction in the "Veeder-Root Warranty and Dispatch Program" pages in the "Policies, Literature, and Contact" Section of the Veeder-Root **Consoles - North America** Price List.

Introduction

Contractor Certification Requirements 1
Related Manuals 1

Mag 1&2 Plus! Probe Installation Kits

Installation Kits 2

Assembling Probe Components

Attaching Probe Canister Spacer Rings 5
Assembling Floats onto Probe Shaft 5
Attaching Cable Connector to Probe Canister 6

Figures

Figure 1. Probe Installation Kit 846400-XXX Contents 2
Figure 2. Probe Installation Kit 846416-XXX Contents 3
Figure 3. Probe Installation Kit 846426-XXX Contents 4
Figure 4. Installing Probe Canister Spacer Rings 5
Figure 5. Probe float installation 6

Introduction

This manual describes how to identify and assemble the components of the Magnetostrictive 1 & 2 Plus! Probes, and lists a special kit for LPG tank installations. Instructions are included for assembling floats onto the probe's shaft, attaching spacer rings to the probe's canister, and attaching the probe's cable to the canister.

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

IMPORTANT

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

Make a record of the float size installed on each probe. The installed float size will be required for each probe during system setup.

Contractor Certification Requirements

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

To install probe in tank, consult the appropriate Site Prep and Installation Manual for your console.

Mag 1&2 Plus! Probe Installation Kits

Installation Kits

Available probe installation kits are listed in Table 1 through Table 3

Table 1. Probe Installation Kit P/N 846400-XXX

Qty.	Description	Part Number
1	Cable, 5 feet long (standard size)	330272-001
1	2-inch* Product Float	331627-001
1	2-inch* Water Float	331582-00X
1	3-inch* Product Float	331759-001
1	3-inch* Water Float	331583-00X
1	Boot	331920-001
2	Canister Spacer Ring	331555-001
1	Cable Seal Kit (CSK)	330020-067

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

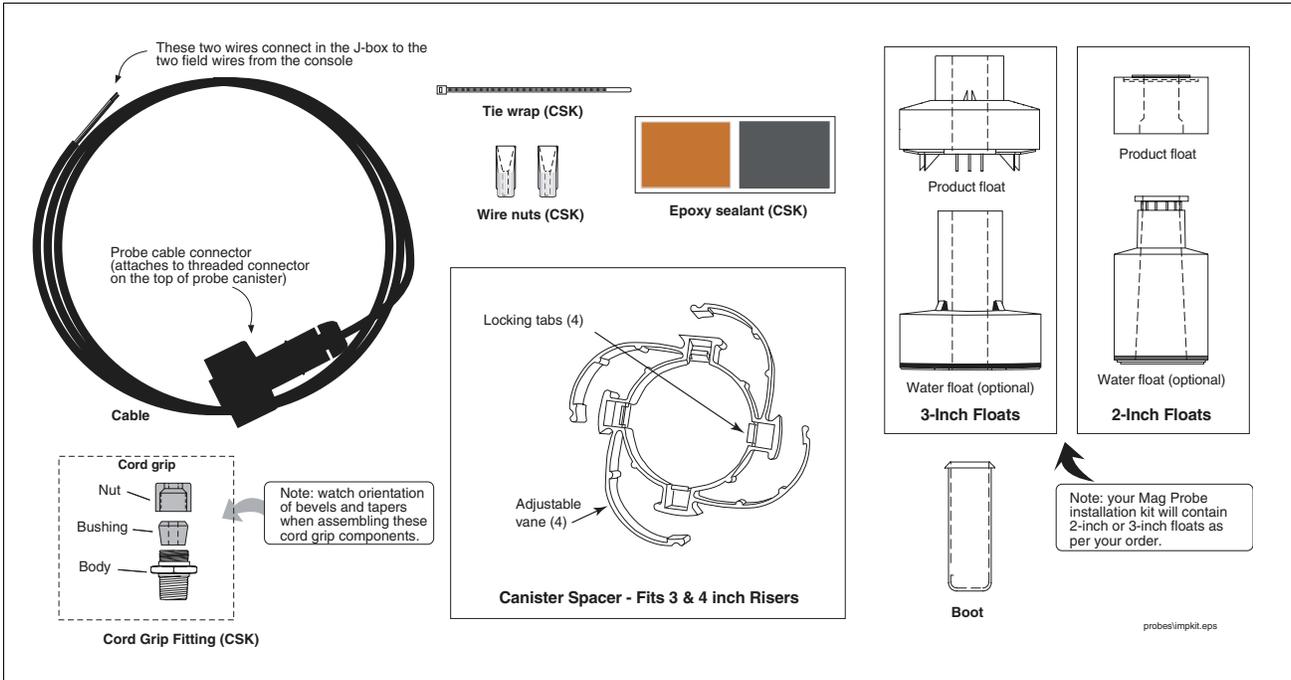


Figure 1. Probe Installation Kit 846400-XXX Contents

Table 2. Probe Installation Kit P/N 846416-XXX

Qty.	Description	Part Number
1	Cable, 5 feet long (standard size)	330272-001
1	4-inch Product Float	331719-001
1	4-inch Water Float	331718-00X
1	Boot	331920-001
2	Canister Spacer Ring	331555-001
1	Cable Seal Kit (CSK)	330020-415
1	4-inch Plastic Riser Cap	331675-001

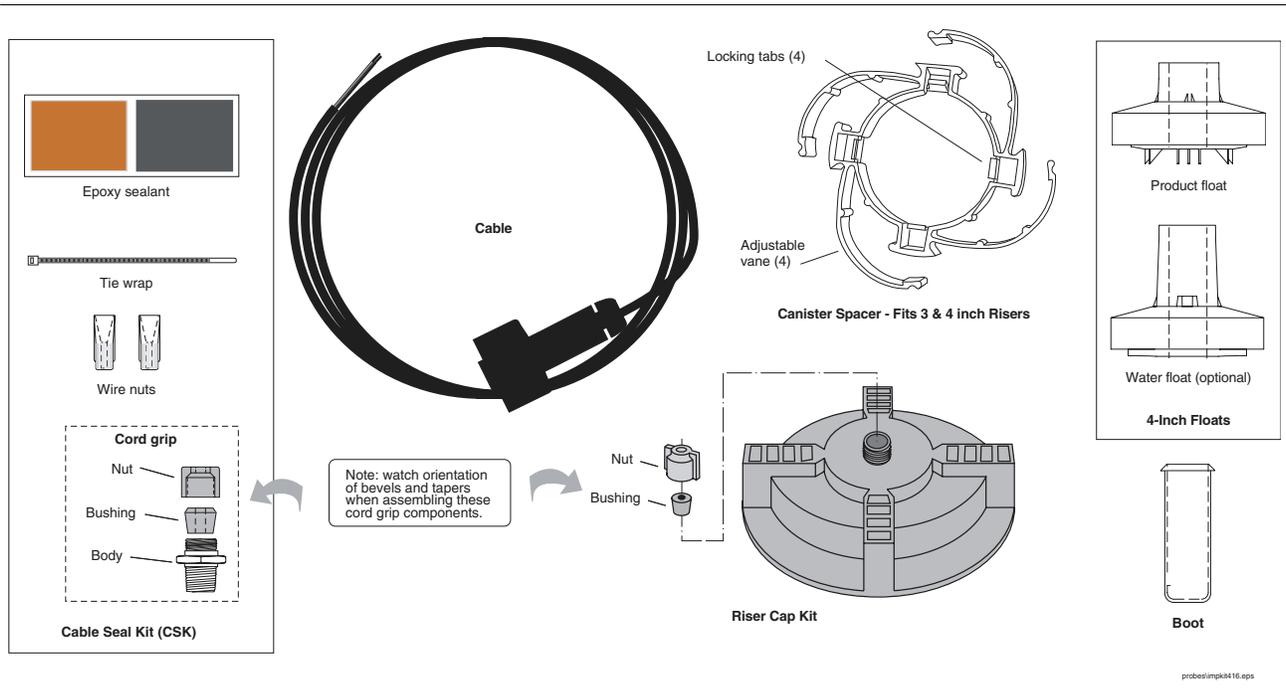


Figure 2. Probe Installation Kit 846416-XXX Contents

Table 3. Probe Installation Kit P/N 846426-XXX

Qty.	Description	Part Number
1	Cable, 5 feet long (standard size)	330272-001
1	4-inch Product Float	331719-001
1	4-inch Water Float	331718-00X
1	Boot	331920-001
2	Canister Spacer Ring	331555-001
1	Cable Seal Kit (CSK)	330020-415
1	4-inch Brass Riser Cap	331676-001

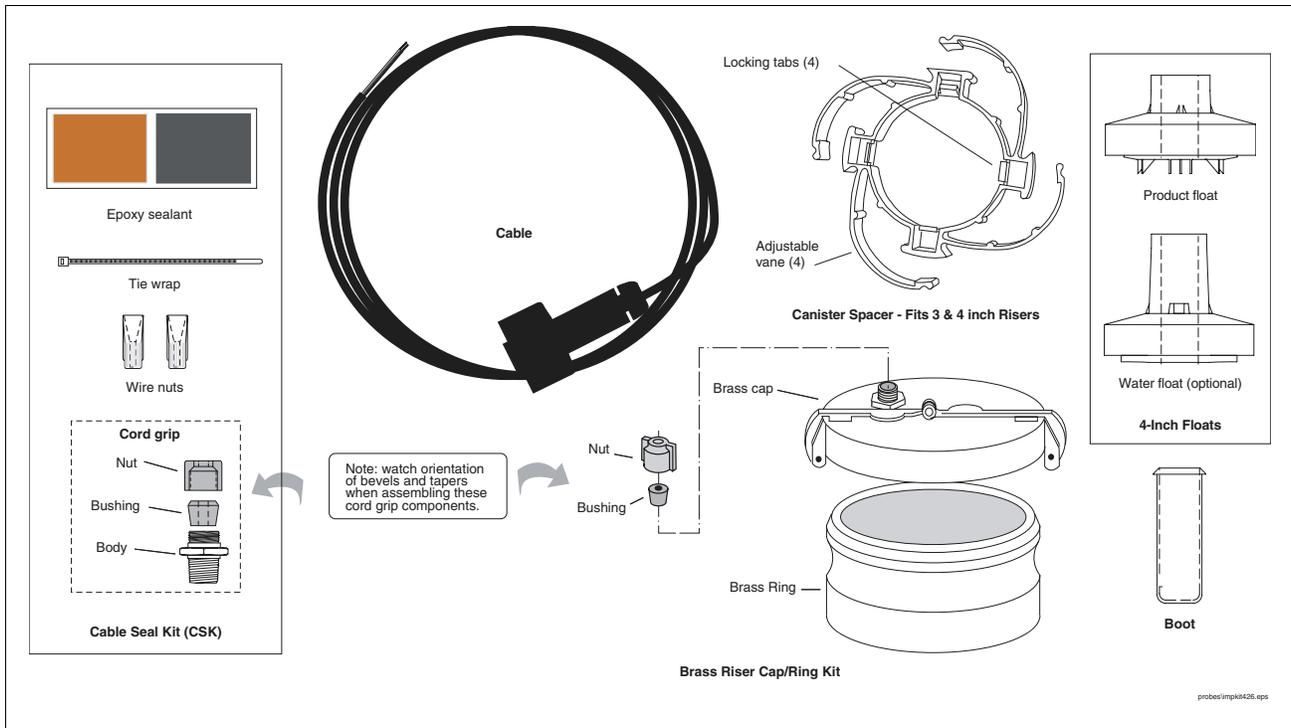


Figure 3. Probe Installation Kit 846426-XXX Contents

Assembling Probe Components

Attaching Probe Canister Spacer Rings

1. Open the Probe shipping carton so that you have access to the probe. Also open the installation kit.
2. After setting the spacer vanes for a 3- or 4-inch riser (see Figure 4), install the two spacer rings as shown. Note: you must slide the bottom spacer over the probe and onto the lower end of the canister.

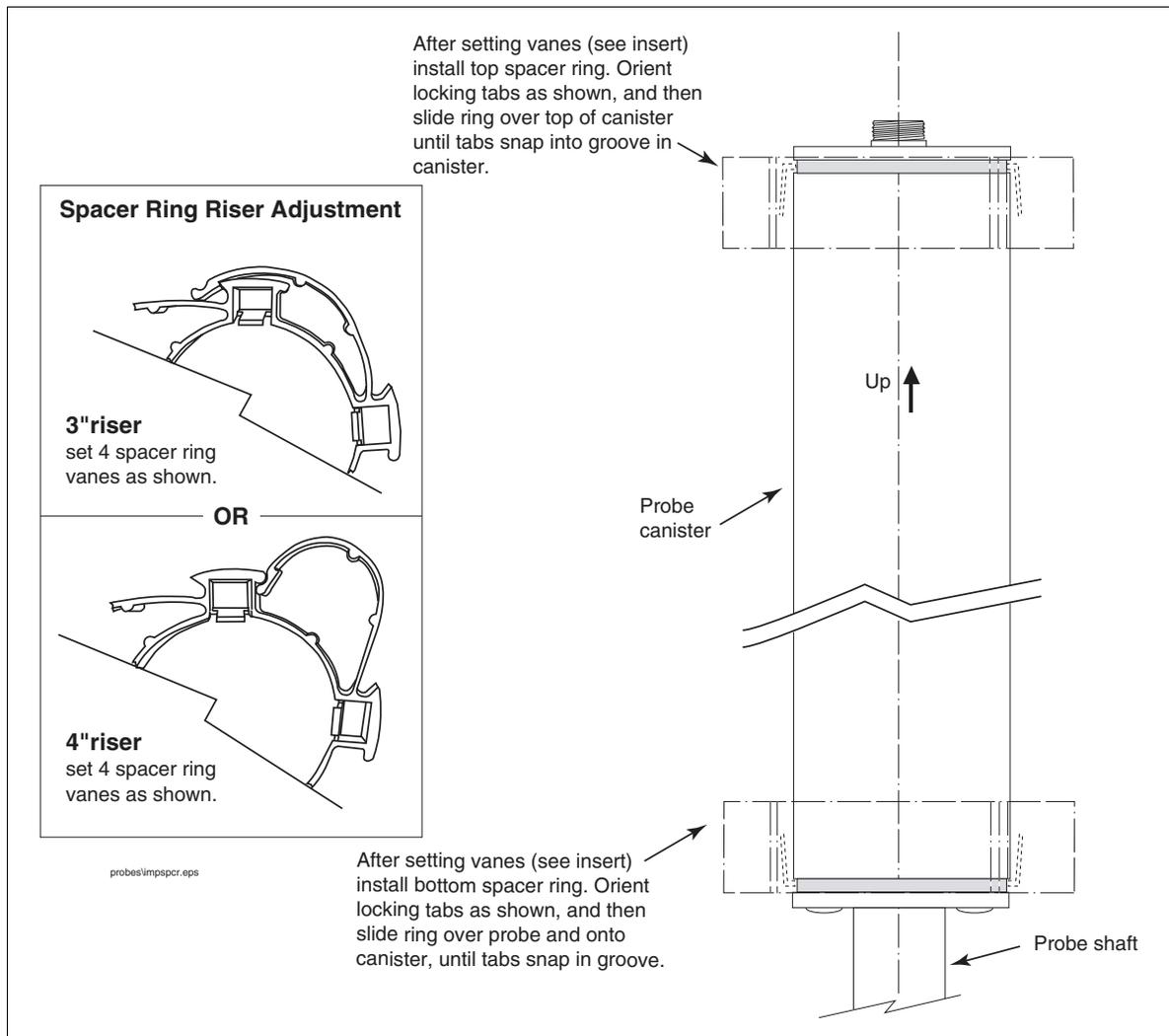


Figure 4. Installing Probe Canister Spacer Rings

Assembling Floats onto Probe Shaft

1. The Product floats, Water Floats (if ordered), and Boots from Probe Installation Kits are assembled on the probe shafts in the exact sequence and orientation shown in Figure 5.

IMPORTANT! Failure to push the boot as far as possible onto the probe shaft could cause the boot and float(s) to fall into the tank. The boot must be pushed on until it “locks” on the probe shaft. Also, water floats must be installed, if ordered, for the probe to operate correctly.

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

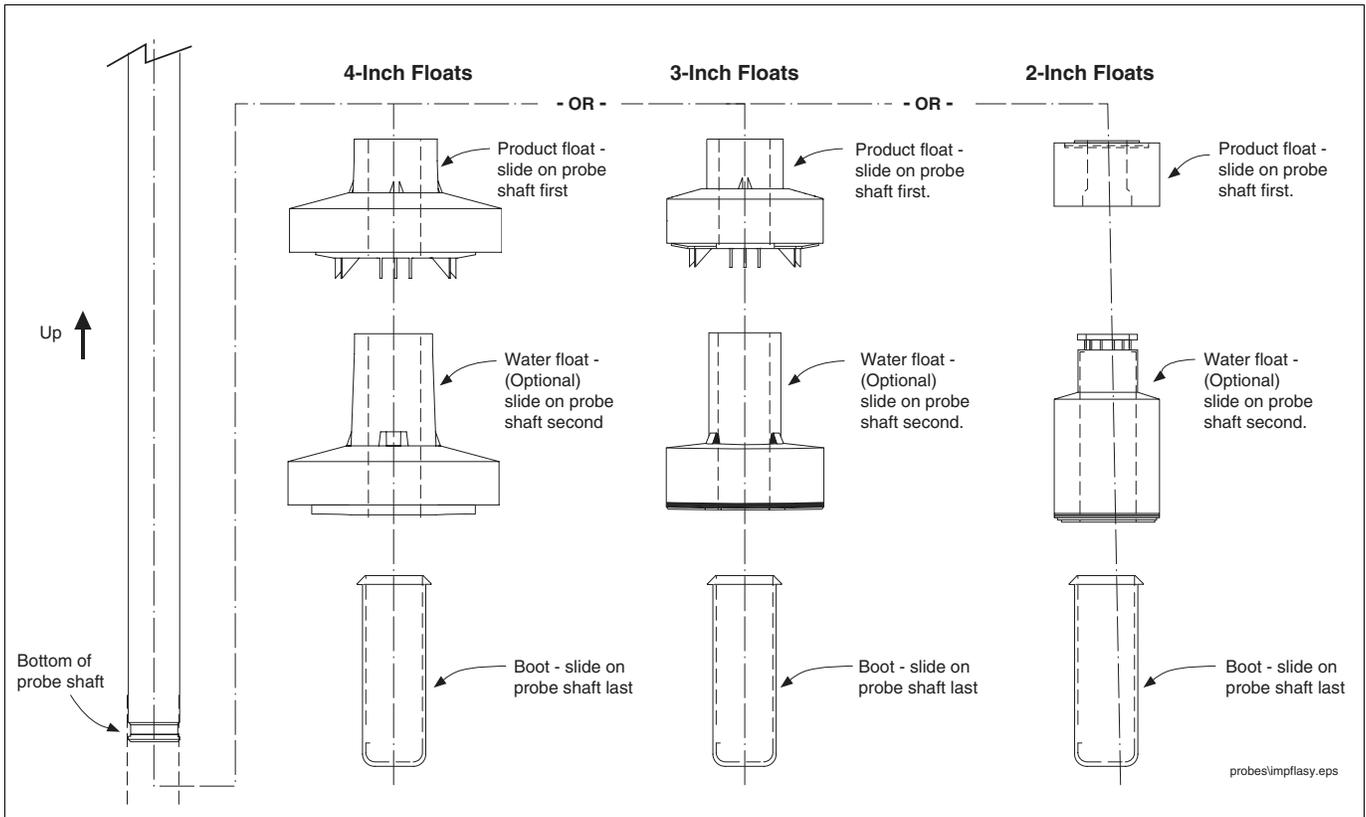


Figure 5. Probe float installation

Attaching Cable Connector to Probe Canister

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

This completes the probe assembly. Save the remaining kit components. They will be needed to install the probe into the tank. Reference the appropriate Site Prep and Installation Manual for your console.

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