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# YOLINK YS5003-UC Valve Controller 2 and Bulldog Valve Robot Kit User Guide

## Contents

# YOLINK

**YOLINK YS5003-UC Valve Controller 2 and Bulldog Valve Robot Kit**



## Product Information

**Valve Controller 2 and Bulldog Valve Robot Kit**

The Valve Controller 2 and Bulldog Valve Robot Kit from YoLink is a smart home automation product that allows you to remotely control your water supply. The kit includes the Valve Controller 2, Bulldog Valve Robot, and necessary cables for installation. The Valve Controller 2 wirelessly connects to the internet via a YoLink Hub or SpeakerHub, and it does not directly connect to your WiFi or local network. In order for remote access to the device from the app, and for full-functionality, a YoLink hub is required.

**In the Kit**

- Valve Controller 2
- Bulldog Valve Robot
- Plug-in Power Supply
- 4 x AA Batteries (Pre-Installed)
- Phillips Head Screws(3)
- Large & Small Brackets
- Valve Status Cable
- Valve Control Cable
- 12VDC Input Cable
- Installation & User Guide

- Quick Start Guide

**Important Note**

Please note that the existing ball valve must be in good working order. It must open and close smoothly, with minimal effort, and it must close fully, shutting off the water completely. The Bulldog Valve Robot is not able to correct mechanical issues of the ball valve.

**Required Items**

These tools or items may be required:

- Drill with Drill Bits
- Wall Anchors
- Medium Phillips Screwdriver

**Environmental Range Specifications**

If installing the Valve Controller 2 and Bulldog Valve Robot outdoors, please refer to the environmental range specifications
found on the Valve Controller 2 product support page. While these devices can be installed outdoors, they should be protected from rain and direct sunlight by an enclosure or overhead cover, such as a rain hood.

**Product Support**

You can find all current guides and additional resources, such as videos and troubleshooting instructions, on the Valve Controller 2 and Bulldog Valve Robot Kit Product Support Page by scanning the QR code in the instructions manual or by visiting
**https://shop.yosmart.com/pages/valve-controller-2-product-support**.

# Product Usage Instructions

**Before You Begin**

Please note that this is a quick start guide, intended to get you started on the installation of your Valve Controller 2 and Bulldog Valve Robot Kit. Download the full Installation & User Guide by scanning the QR code in the instructions manual.

**Installation**

1. Ensure that your existing ball valve is in good working order.
2. Install the Valve Controller 2 using the provided brackets and screws. Ensure that it is securely attached to a stable surface.
3. Attach the Valve Control Cable to the Bulldog Valve Robot and the Valve Controller 2. Ensure that it is properly connected and secure.
4. Connect the Valve Status Cable to the Bulldog Valve Robot and the Valve Controller 2. Ensure that it is properly connected and secure.
5. Connect the 12VDC Input Cable to the back of the Valve Controller 2 and plug it into a power source.
6. Insert 4 x AA batteries into the Valve Controller 2.

7. Pair the Valve Controller 2 with a YoLink Hub or SpeakerHub using the YoLink app.

8. Calibrate the Bulldog Valve Robot according to the instructions in the Installation & User Guide.

9. You can now control your water supply using the YoLink app.

**Using the YoLink App**

1. Ensure that your Valve Controller 2 is paired with a YoLink Hub or SpeakerHub and that it is properly connected to the app.

2. Open the YoLink app on your phone or mobile device.

3. Select the Valve Controller 2 from the list of devices.

4. You can now open or close the valve using the app.

**LED Behaviors**

The Valve Controller 2 has a status LED that conveys specific information through its behavior. Here are two examples:

- Blinking Red Once, Then Green Once – Device Start-Up
- Blinking Red And Green Alternately – Restoring to Factory Defaults

**Contact Support**

If you experience any problems with your installation, with our products, or if you have any questions that this manual does not answer, please contact YoLink support right away. Contact information can be found in the Contact Us section of the Installation & User Guide.

# Welcome!

Thank you for purchasing YoLink products! We appreciate you trusting YoLink for your smart home & automa-tion needs. Your 100% satisfaction is our goal. If you experience any problems with your installation, with our products or if you have any questions that this manual does not answer, please contact us right away. See the Contact Us section for more info.
Thank you!
Eric Vanzo
Customer Experience Manager
The following icons are used in this guide to convey specific types of information:

- Very important information (can save you time!)
- Good to know info but may not apply to you

# Before You Begin

Please note: this is a quick start guide, intended to get you started on the installation of your Valve Controller 2 and Bulldog Valve Robot Kit. Download the full Installation & User Guide by scanning this QR code:

Installation & User Guide

You can also find all current guides and additional resources, such as videos and troubleshooting instructions, on the Valve Controller 2 and Bulldog Valve Robot Kit Product Support Page by scanning the QR code below or by visiting:
**https://shop.yosmart.com/pages/valve-controller-2-product-support**



**Product Support Support**
**Please note:** the existing ball valve must be in good working order. It must open and close smoothly, with minimal effort, and it must close fully, shutting off the water completely. The Bulldog Valve Robot is not able to correct mechanical issues of the ball valve.

Your Valve Controller 2 wirelessly connects to the internet via a YoLink Hub or SpeakerHub, and it does not directly connect to your WiFi or local network. In order for remote access to the device from the app, and for full-function-ality, a YoLink hub is required. This guide assumes the YoLink app has been installed on your phone, and a YoLink Hub or SpeakerHub is installed and online.

If installing the Valve Controller 2 and Bulldog Valve Robot outdoors, please refer to the environmental range specifications found on the Valve Controller 2 product support page. While these devices can be installed outdoors, it should be protected from rain and direct sunlight by an enclosure or overhead cover, such as a rain hood.
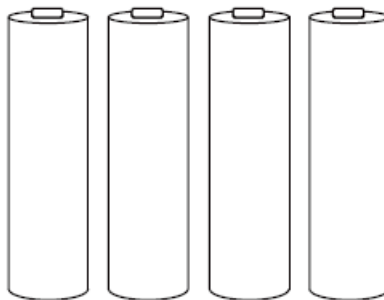
## In the Kit
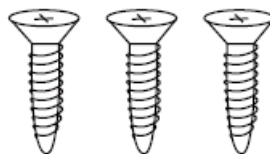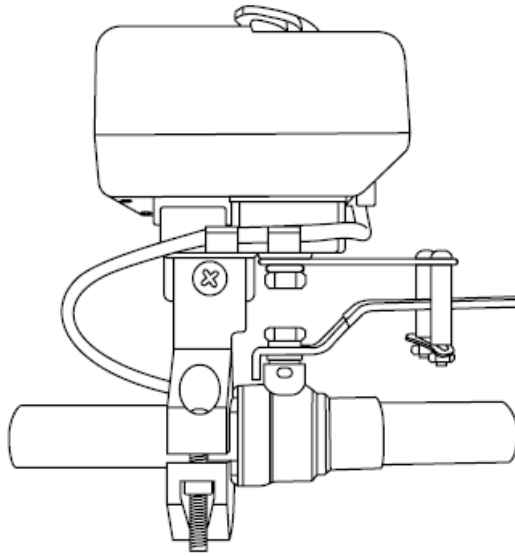
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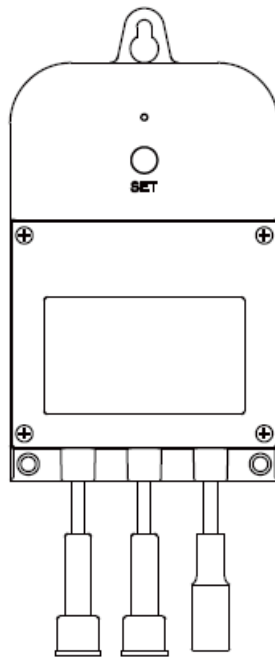
- Plug-in Power Supply
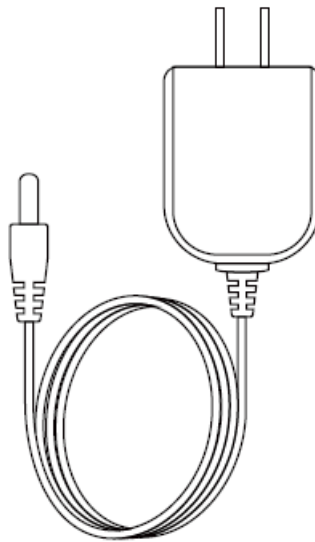


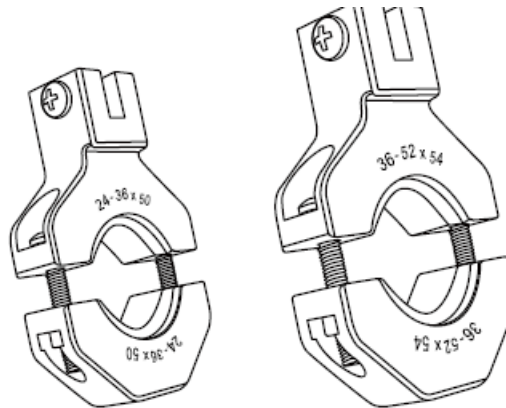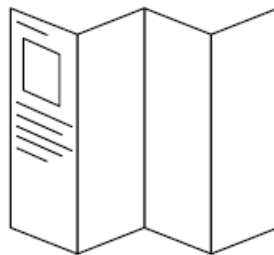- 4 x AA Batteries (Pre-Installed)



- Phillips Head Screws(3)



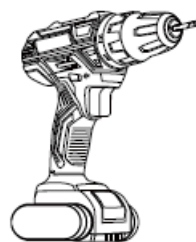- Bulldog Valve Robot

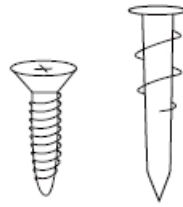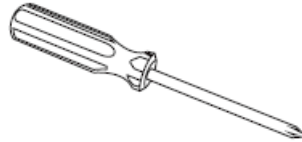- Large & Small Brackets

- Quick Start Guide

## Required Items

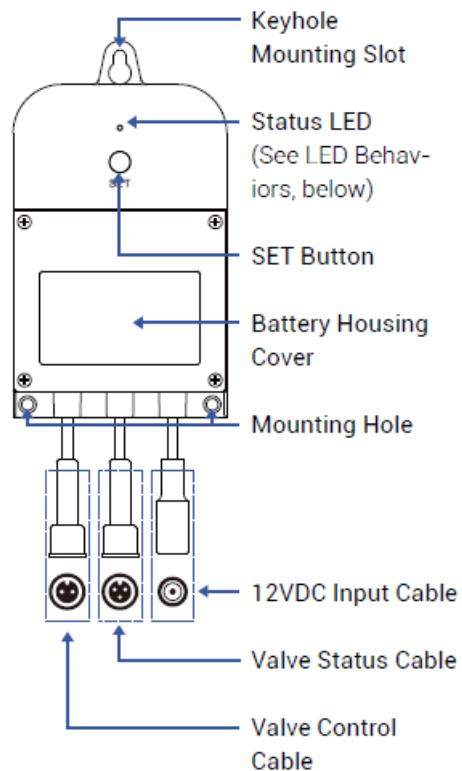These tools or items may be required:

- Drill with Drill Bits

- Wall Anchors

- Medium Phillips Screwdriver

## Get to Know Your Valve E Controller

Keyhole Mounting Slot

Status LED (See LED Behaviors, below)

SET Button

Battery Housing Cover

Mounting Hole

12VDC Input Cable

Valve Status Cable

Valve Control Cable

## LED Behaviors

- Blinking Red Once, Then Green Once Device Start-Up

- Blinking Red And Green Alternately Restoring to Factory Defaults

- Blinking Red Once Valve Closing

- Quick Blinking Red Twice Valve is Closed

- Blinking Green Once Valve Opening

- ![icon] Quick Blinking Green Twice Valve is Open

- ![icon] Slow Blinking Green Twice Connecting to Hub

- ![icon] Quick Blinking Green Control-D2D Pairing in Progress

- ![icon] Quick Blinking Red Control-D2D Unpairing in Progress

- ![icon] Slow Blinking Green Updating

- ![icon] Fast Blinking Red Once Every 30 Seconds Low Battery, Replace Batteries Soon

## Get to Know Your Bulldog Valve Robot
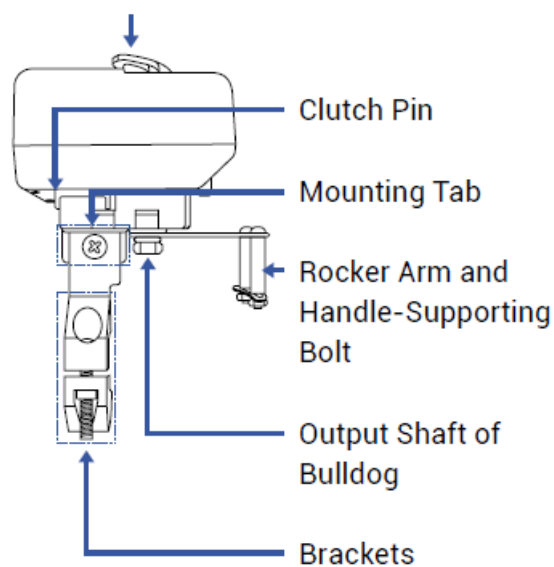


## Add Your Valve Controller 2 to the App

1. Tap Add Device (if shown) or tap the scanner icon:
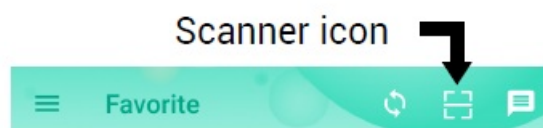


2. Approve access to your phone's camera, if requested. A viewfinder will be shown on the app.

3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the Add Device screen will be displayed.

4. Follow the instructions to add your Valve Controller 2 to the app.

## Install the Valve Controller 2

**Preparing for installation:**
Determine where you will install your Valve Controller 2. Typically, it should be wall-mounted, no farther away from the Bulld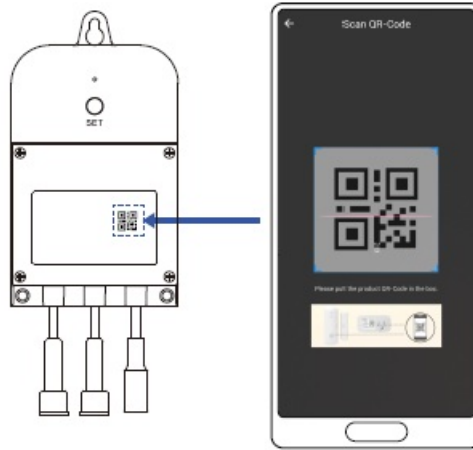og Valve Robot than the length of the cables allow (if you have purchased optional extension cables, the valve controller can be installed at a location separate from the Bulldog Valve Robot).

**Note:** use of the 12VDC power adapter is optional. If not used, batteries are required. If the power adapter is used, batteries are optional.
Determine how you will mount the valve controller to the wall, and have hardware and anchors appropriate for the wall surface on hand.

1. Mark the location of the hole for each of the valve controller's three mounting points on the wall. Install anchors, if applicable, per the anchor manufactur-er's instructions. Insert the screw for the topmost mounting point, leaving enough space to hang the controller.

2. Hang the controller on this top screw, then insert the two remaining screws into their respective anchors or locations.

3. Tighten all three screws, ensuring the valve controller is secured to the wall.

## Install the Bulldog Valve  Robot

1. Select the appropriate bracket for your application. The appropriate bracket fit over the ball valve, and will allow for clamping securely to it when the screws are tightened. If the bracket does not fit over the ball valve or seems to be too loose, use the other bracket.

2. Loosen the two screws, to separate the bracket into two pieces, as shown.
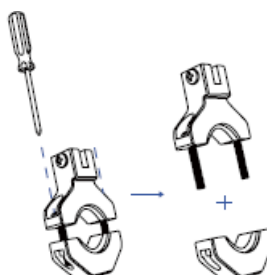
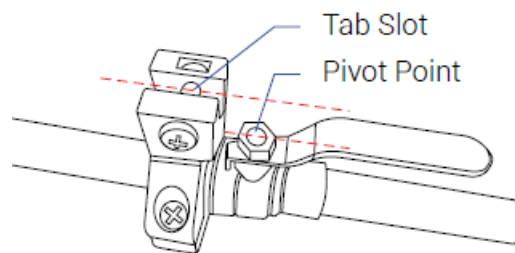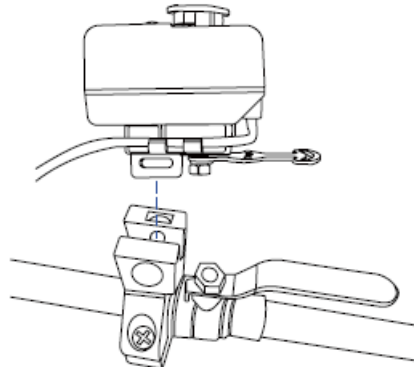3. Place the upper bracket and lower bracket on the valve, as shown, and loosely tighten the screws.
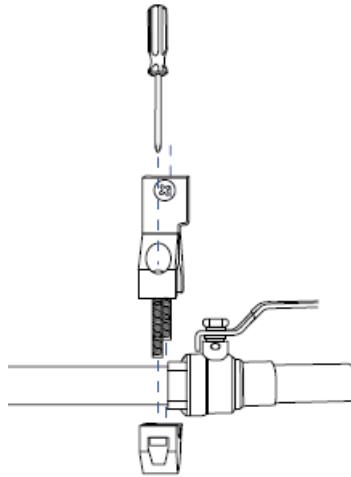


4. Position the bracket so that it is aligned with the pivot point of the ball valve, by visualizing a line between the tab slot and the pivot point, as shown.



5. Remove the screw from the tab slot, then attach the Valve Robot to the bracket.



6. Keeping the center axis of the Valve Robot's motor shaft aligned with the ball valve shaft, as indicated by the red dashed line, reinsert and tighten the tab slot screw.

If it is not possible to align the parts as shown, or if the bracket can not be secured to the ball valve, consider rotating the ball valve handle 180°. After removing the Bulldog, this can be done by removing the ball valve handle, and then reinstalling it on the other side. Reinstall the Bulldog (on the other side of the ball valve) and check if alignment is better in this position.
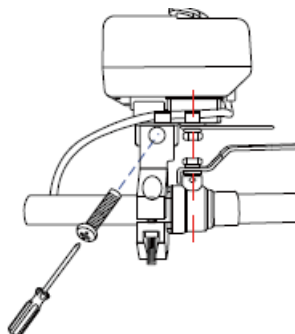


7. Securely tighten the two screws on the bracket. Gently tug on the Bulldog, and tighten the screws until the Bulldog is firmly held in place by the bracket and tab screw.
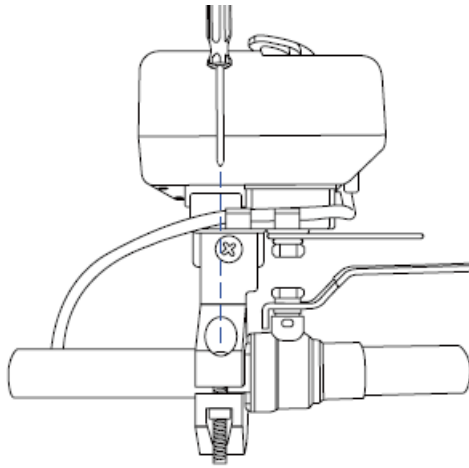
8. Remove the nuts and collars from the two handle supporting bolts, as shown.



9. Place the bolts in the slot on the rocker arm, with one on each side of the valve handle, as shown.



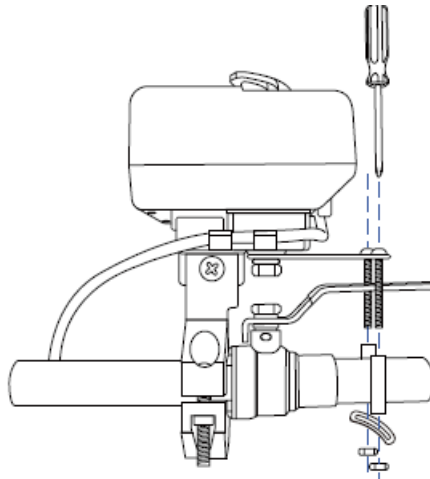10. Put the collars back on the bolts. Next, while holding the bolts and collar pieces in place, attach the bottom supporting bracket, as shown. Then, attach and loosely tighten the nuts to the bolts. Finally, position both bolts and collars so that they are snug against each side of the valve lever.

## Power Up, Final Connections & Testing

1. The Valve Controller will appear offline until it is turned on and it wirelessly connects to a YoLink hub. Turn on the Valve Controller by pressing the SET button until you see the LED blink (red, then green, indicates the Valve Controller 2 has connected to the cloud).
2. In the app, verify the Valve Controller is indicated as online.
3. Connect the valve controller's valve control cable to the control cable of the Bulldog Valve Robot.
4. Connect the valve controller's valve status cable to the valve status cable of the Bulldog Valve Robot.
5. If using the power adapter, and before plugging in the power adapter to the AC power outlet, connect the valve control-ler's 12VDC input cable to the power adapter cable. Plug in the power adapter at the wall outlet.
6. Test the Valve Controller 2 and Bulldog Valve Robot by pressing the SET button on the controller, and by watching the closing or opening action of the Bulldog and the ball valve. The valve should open and close completely (verify no water is flowing through the valve while closed). Also, listen for an even sound of the motor operating. If the Bulldog sound increases or appears to be straining, this may indicate incorrect or sub-

optimal Bulldog installation and/or a mechanical issue with the ball valve (such as too stiff or too much resistance to turning). Return to section K, if needed.

7. Test the operation of the Valve Controller 2 from the app. From the Rooms or Favorite screen, locate your Valve Controller 2, tap the image, then tap Close to turn off the water, and tap Open to turn it on.

Refer to the full installation and user guide to complete the setup of your Valve Controller 2 and Bulldog Valve Robot.

## Contact Us

We are here for you, if you ever need any assistance installing, setting up or using a YoLink app or product!
Need help? For fastest service, please email us 24/7 at **service@yosmart.com**
Or call us at 831-292-4831 (US phone support hours: Monday – Friday, 9AM to 5PM Pacific)
You can also find additional support and ways to contact us at: **www.yosmart.com/support-and-service**
Or scan the QR code:



Support Home Page

Finally, if you have any feedback or suggestions for us, please email us at **feedback@yosmart.com**
Thank you for trusting YoLink!
Eric Vanzo
Customer Experience Manager

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## Documents / Resources

| | |
|---|---|
|  | **YOLINK YS5003-UC Valve Controller 2 and Bulldog Valve Robot Kit** [pdf] User Guide YS5003-UC, BULLDOG, YS5003-UC Valve Controller 2 and Bulldog Valve Robot Kit, Valve Controller 2 and Bulldog Valve Robot Kit, Controller 2 and Bulldog Valve Robot Kit, Bulldog Valve Robot Kit, Valve Robot Kit |

## References

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