



# KIT INSTALLATION INSTRUCTIONS



**FAILURE TO FOLLOW THESE INSTRUCTIONS WILL VOID ALL GUARANTIES OR WARRANTIES**

- The KPB micro-transmitter system must be attached to metal. The signals will not transfer through a pipe that is not metal.
- Ensure that the surface of the metal pipe at the installation site is completely clean before installing. Take care to remove any rust, paint, plastic covering, weatherproofing, debris, etc. We highly recommend using a grinding tool as needed to ensure a clean surface prior to installation.
- Always install the KPB Micro-Transmitters on the **bottom** of the pipe or manifold. For vertical orientations, ensure the pipe is fully pressurized when irrigating
- Always make sure to place the exposed metal of the micro-transmitters against the metal pipe with the colored labels covered by tape.
- Always do your best to install the KPB system after any ionizers, injection systems, filters, etc. This may not always be possible. Ideally KPB should be the last input in the water before it goes to the plants.
- **If possible, measure the water flow of the pump at maximum capacity** using a flow meter or the pump meter if it exists. **“IMPORTANT”** Make sure the maximum water flow rate of the pump does not exceed the maximum flow rate for the KPB system you are installing. If a water meter exists at the pump, write down the beginning value on the WATER SAMPLES TESTING form or App once available.
- When installing the KPB into the irrigation system, use a professional irrigation specialist authorized and certified by Harvest Harmonics, or get trained yourself.
- For systems with multiple transmitters, align the transmitters in the color sequence required per the Install Order or Packing List on a clear plastic clipboard. Ensure that they all touch each other end-to-end.

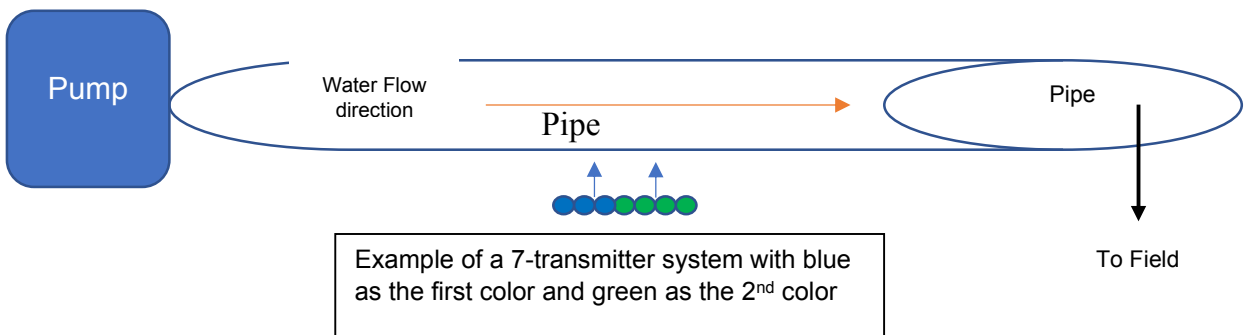


Figure 1 Grinding Tool



**Direction: Pump → Field**

**Your system:** \_\_\_\_\_ **Transmitter Color:** \_\_\_\_\_ **Transmitter Color:** \_\_\_\_\_





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- Place a strip of heavy-duty duct tape over the transmitters, ensuring that all transmitters are still in contact with each other.
- Take the strip off the clipboard. The transmitters should be touching along the edges.
- Attach the strip of transmitters to the bottom of the irrigation pipe that you prepared earlier. Ensure that the transmitters are aligned in the direction of water flow per the color scheme laid out in the order.
- Secure the strip by wrapping duct tape around the pipe and strip. Make at least 3 passes around the pipe.
- Apply any construction glue to the concave (rounded inward) side of the PVC cover strip. **(See example on right)**
- Apply the PVC cover with glue over the strip with the transmitters and press firmly.
- Wrap the entire PVC cover and pipe with more duct tape to firmly secure it.
- Apply the Harvest Harmonics waterproof labels to the outside of the duct tape. Ensure good readability from the sides where possible. Also make sure the black lines on the labels **(used as markers for the steel belts)** wrap around the pipe. Make sure the black lines are aligned when using more than one label, as required for the next step.
- Wrap the Strap binder straps around the pipe and ensure they are aligned within the black lines. The installation will require 2 or 3 straps accordingly.
- The straps wrap around the pipe and slide into the buckle. They are long enough to wrap around the pipe **twice** and slide into the buckle twice.
- Tighten the straps with the appropriate clamping tool (HDC-300 or F-100 from <https://idealtridon.com/>)
- Using a mallet or hammer, punch the clip using the centerpunch on the clamping tool. There should be a deep indentation on the clamp.
- Rock the tool up and down several times. This severs the extra strap or “tail”, leaving a clean strap. Repeat for all other straps.
- Once the KPB system is properly installed, water samples must be taken and sent to the Biomedic Clinic and Research Center in Como, Italy. **Follow the instructions in the separate Water Sample and Shipping instructions.**
- Installers must take water samples and handle shipments themselves to ensure quality control protocols for testing are completed. **IMPORTANT:** Installers are paid only after the frequencies are confirmed in the water samples.



Thank you for following these instructions.

Harvest Harmonics Management