

CTMBV Assembly Instructions



1. Unscrew and remove the lid of the LB junction box and the seal inside.
2. Coat the one side of a junction box port connection with pipe primer and coat one 3/8 adapter with pipe primer. Then coat the same sides with PVC glue. Insert the 3/8 adapter into to junction box and twist a ½ turn while inserting. Repeat step on other port connection of junction box.



3. Screw the PG9 connectors into the 3/8 adapters. Tighten by hand.



4. Prepare the valve and junction box for attachment by cleaning the side of the valve (see picture) and the inside of the junction box with isopropyl alcohol.



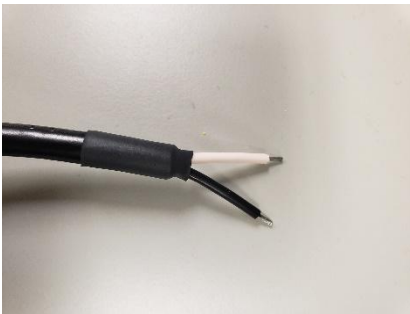
5. When alcohol is dry put two strips of 3M VHB Tape on the horizontal of the of the valve (see picture). Rub tape back and forth to ensure any air bubbles are pushed out.



6. Remove the backing from the tape and press the Junction box to the valve body (see picture). Ensure the top of the valve and junction box is level. Clamp the valve into a vice for about 1 minute



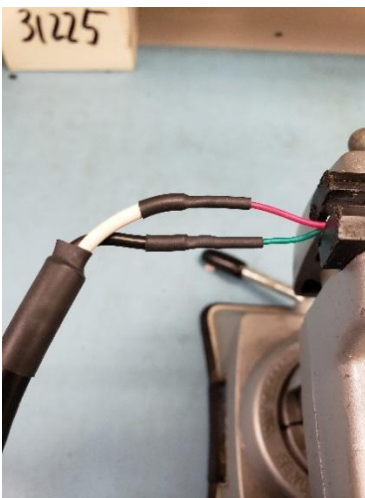
7. Cut two pieces of 1/8" shrink tubing and one piece of 3/4" shrink tubing. All pieces should be around 3/4" long.
8. Cut the green wire off the power cord. Cut the white and black wires about halfway down. Strip the wire and tin the leads. Install and shrink the 3/4" heat shrink at the transition of the power cord. See picture for finished wire.



9. Cut the connector off the valve right near the connector. Strip back and tin leads.
10. Install valve wire into the junction box in the nearest PG-9. Pull wire through until most of the wire is through and tighten the PG9. Install the power cord in the junction box on the other end and do not tighten PG9.



11. Put the 1/8" shrink tube on one of the wires and solder the wire from valve to the power cord. Red solders to White and Green solders to Black. Cover the splice up with the shrink tube and shrink it. Repeat step for other wire.



12. Pull power cord out until it is just inside the junction box and screw and tighten the PG9. Lay valve wire inside junction box. Screw lid with gasket back onto junction box.
13. Remove protective film from factory label on the top of the valve (if it is there). Then place our CTMBV Data sticker over top of the factory sticker. See picture for finished product.



14. Test the valve. Plug the valve into an outlet and it should open, there may be a few seconds of delay which is fine. Unplug valve and the valve will close.
15. Box in a 975 box and put the proper part number label on the box.