

ZipZ™ Kit Assembly

You have purchased the kit form of our ***ZipZ™***. It contains 6 circuit boards, 6 edge connectors (blue), 6 terminal blocks (green) and 12 self-tapping screws. You should use a small soldering pencil and rosin core electronics solder to attach the two components. *Do not use additional flux.* You will probably find it easiest to snap the panel into 6 boards to start with.

1. Insert the blue edge connector into the holes in the board. It fits either way.
2. We have provided two self-tapping screws to hold the connector tight to the board. Use a #1 Phillips screwdriver to carefully thread the two screws into the board. Just snug them down—DO NOT over-tighten as they will strip out of the board easily.
3. Turn the board over and solder the 16 posts to the board. The center holes do not need solder.
4. Insert the terminal block into the remaining 8 holes.
Be very certain the side of the block with the larger wire openings faces AWAY from the edge connector.
5. Turn the board over and making sure the block remains tight against the board, solder the 8 positions.

ZipZ™ INSTALLATION

Your new ***ZipZ™*** board is designed to slide onto the electrical connection tab extending from a TORTOISE™ or SMAIL™. Older TORTOISE™s with the tan (slightly undersized) circuit board will be easier to center properly if a 1/4" piece of 0.040" x 0.080" styrene strip is ACC cemented into the corners of the edge connector. But they are not required. Just be careful to line up the pads with the contacts as you push it on. The 8 position terminal block makes connecting layout wiring easy and requires no soldering. We suggest making your wiring connections to the ***ZipZ™*** before attaching to the switch machine. The ***ZipZ™*** can be attached to the switch machine facing either way. Note that the numbers printed on the ***ZipZ™*** board may or may not correspond to the numbers on your switch machine depending upon which way it faces. You will need to back out the terminal block screws a couple turns with a small flat blade screwdriver before you can slip the wire into the clamp. Tighten securely and then tug on the wire to make sure it does not slip back out. The ***ZipZ™*** should accept solid or stranded wire between 14 and 26 gauges. After you have connected all your wires, make sure all power is OFF, then slide the ***ZipZ™*** onto the switch machine tab and push it all the way in. The edge connector on the ***ZipZ™*** is intentionally quite tight. You may find it easiest to start it on a slight angle and then rock it straight to push it home. If using on older machines, make sure the older (tan) boards are centered. Apply power and test the operation.