

## Instructions For the Red Magma Emerald Cut Ring by Wyatt White

### Materials:

180N-120 20GA NT Brass Half-Round Wire - 1 pc. 6 1/2"

180N-221 21GA NT Brass Square Wire - 4 pcs. 5"

Swarovski Red Magma Foil Back stone #4627 27x19mm

### Tools:

201A-289 Banding Pliers for 20 and 21 GA square wire

228A-300 Ring Mandrel

202E-001 Flush Cutter

201E-005 Designer Bent Chain Nose Pliers

201E-003 Designer Round Nose Pliers



1. Use the Banding Pliers (appropriate size to fit the square wire) on the center of the 1/2 round wire. Make sure the half-round wire is flat side up and carefully squeeze to make the double right angle bend in the wire. This wire will be used to hold the square wires together. See the YouTube video on the Beadalon channel for proper use of the Patent Pending Banding Pliers instructions.
2. Slide all 4 of the square wires into the bend of the 1/2 round wire from the step above, make sure the 1/2 round wire is centered on the 4 square wires. Hold the bend with bent chain nose pliers so that the square wires are tightly against one another, pull one side of the 1/2 round wire so that it locks the square wires in place, pull the other side of the 1/2 round in the opposite direction.
3. Tighten each of the bends in the 1/2 round wires to firmly hold the square wires together.
4. Start wrapping the 1/2 round on one side around the 4 side by side square wires, tighten each of the bends to make the wrapping as tight as possible. Continue wrapping the 1/2 round wire around the square wires until all of the wire has been used up (on both sides), this should fill about a 3/4" area on the bottom of the ring.
5. Carefully finish the ends by cutting 1/2 round wire so that it folds across 2 of the square wires, do the same on the other side making sure each of these end wires are on the same side this will be the inside side of the ring.
6. Place the wrapped portion of the ring with the inside side of the ring directly on the ring mandrel, at a size 1 size smaller than the desired ring size (making the initial bend on a size smaller allows for the splay of the wire and will result in a ring size about 1 size larger give or take). Bend the wire/wires until the ring is formed with the 8 pieces of square wire pointing straight up.
7. Begin bending the individual square wires across the top of the ring mandrel first one side then the other crossing one wire with the other wire across, continue to do this until the wires are side by side. This should be done on the correct size of the ring mandrel. the criss crossed wires should form a V shape when looking from the side of the ring. Make sure the ring is bent so that it holds the shape of the desired ring size.

8. Place the ring back onto the ring mandrel, grasp the end square wire and wrap it around the area where the wires intersect, make a complete revolution with the wire, then take the opposite side end square wire and make a revolution in the opposite direction. This should lock the ring to the size, carefully cut one of the wrapped square wires leaving enough of a tail to twist into a small flattened coil then place the coil inside of the intersection on one side. Do the same with the other. Each of the flattened coils should nest inside of the criss crossed area of the ring.

9. Carefully place the stone in the center of the 6 remaining wires, make the angle of these wires so that the stone fits into the v created by the criss/crossed wires and centered on the intersection.

10. Bend each of the 6 square wires up, creating prongs on each of the corners of the stone and one on the sides of the stone.

11. Remove the stone and carefully cut the 6 square wires above the bend (for the stone) at approximately 5/16". Carefully begin making flattened coils on each of the ends of the wire above the bend, make certain that all of the bends go in the same direction. Carefully replace the stone into the ring and place each of the prongs centered on each of the 4 corners and carefully bend the coil down onto the stone surface, once each of the 4 corners have been secured do the same on the long side of the stone.

12. The size of square wire and 1/2 round wires does not matter, the sample was made with 21 ga. square wire and 20 ga. 1/2 round wire, but any of the wires will work. It's a good rule of thumb if you want the wire to be a smaller part of the ring or other jewelry use smaller wire (within reason) and if you want the wire portion to be larger use larger wire.

