

# System Manual

## ***Ebony II Series Towers***

8.2 MHz TX/RX



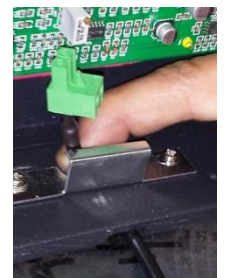
Congratulations on your purchase of a stop shoplifting security system. I am sure this system will give you peace of mind in regards to shoplifting losses. Please do not hesitate to contact technical support to help guide you through your initial setup (see tech telephone number on side of tower). Today's technology makes it easy to set up these security towers. They are amazingly simple yet have complex up to date electronics built inside.

1. Open all boxes and be sure to locate the 2 towers, the 2 power supplies (unless you are wiring them with one power supply and an interconnecting wire between the towers), and baseplates (if ordered). Use the keys attached to the tower to remove the side covers. Note the towers will be placed so that the removable side covers face each other.

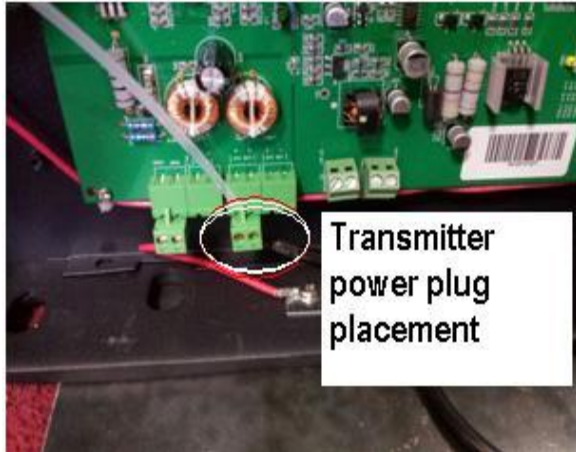


2. It is IMPORTANT to note that the power supply for the transmitter is wired differently than the receiver transmitter so must be plugged into the correct tower. For your convenience the Receiver tower and the Transmitter tower are well marked as are the power supplies.

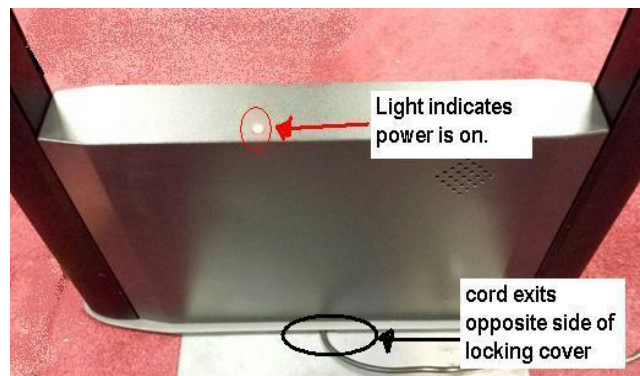
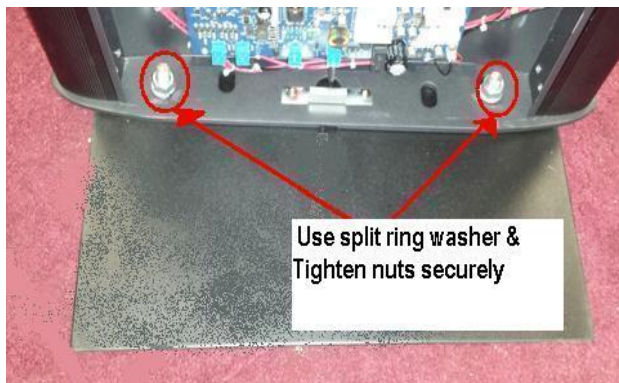
**WARNING: Plugging the wrong power supply into the incorrect tower can cause a short circuit in your electronics. Also they will not power up the board.**



3. Place the wire for the power supply up through the middle hole of the base of the tower. Attach the plug into the connector marked "P" for power on the electronics board. Again be sure your transmitter power supply is plugged into the transmitter tower and the receiver power supply into the receiver tower.



4. Remove the bolts and washers from the baseplate. Center the tower and set it into place on the baseplate. Be careful to put the wire through the groove on the bottom of the tower so you do not pinch the wire. **Be sure the wire is going out toward where you will plug the power into (usually the opposite side as the removable side covers).** Place the washers and the nuts back into place and tighten.



5. Now you are ready to plug in your towers. **It is best that you have a dedicated circuit because the towers will feel the electrical noise from all other items plugged into the same circuit breaker.** If this is not possible after attempting to run it on a circuit breaker without many other things, if persistent false alarming still occurs please contact tech support to help you tune down the sensitivity of the unit. If that is not sufficient then a line filter may help enough so that you do not have to have a dedicated circuit run. Technical support can also help you with line filter recommendations.

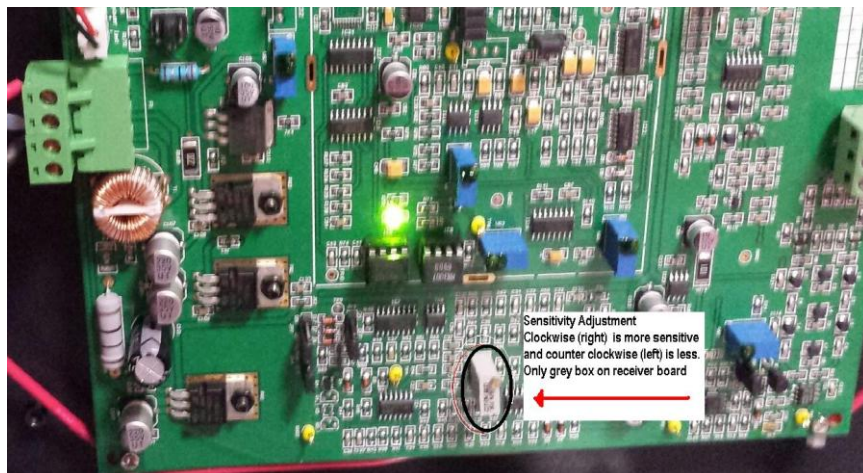
6. Once plugged into an outlet, be sure to let the system warm up at least 15 minutes or so unless constantly false alarming. If continual false alarms occur contact tech support for assistance. Lights at the top of the tower base indicate power is getting to the tower board. Both towers should have this red light lit or it will not function.

7. Towers can be placed parallel to each other with the locked side covers facing each other. This way it will be easy to see what is going on with the lights on the tower panels while tuning it. The towers can be placed at a distance measured from middle of tower to middle of tower, 3 feet to 4 feet. Five feet is usually very possible too. We sometimes see these tx/rx systems working at 6 ft apart in a very clean electrical environment with larger tags.

8. Clear away any tagged items or heavy metal items or any looped wires at least 3 ft away from the sides of the unit. Power supply cords should be stretched out so that the power supplies sit at least 3 ft away from the towers.

9. If there are any neon lights it is best to keep them 12 ft away from the towers. Some open signs look neon but are really florescent. You will see the small tubes of light and a small box that generates the power for them if it is real neon. You can also sometimes hear it hum if close to it.

10. There is a **sensitivity adjustment** located bottom right on the receiver tower board. **It is the only small grey box with a very small screw.** All the rest of the small boxes on the board are blue. Turning this screw in



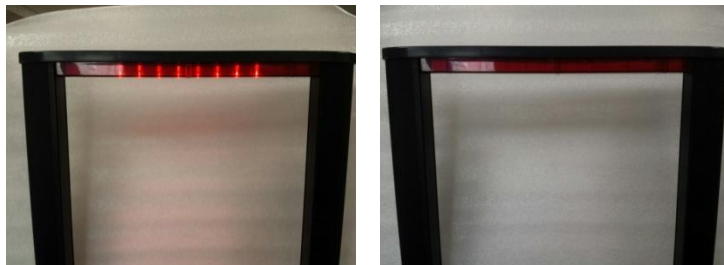
very small amounts **to the right increases sensitivity and to the left (counterclockwise) makes the machine less sensitive.** Only adjust as if a clock,

one number at a time then retest system. Call for tech support if you have any doubts or questions.

11. Once you are satisfied with the performance of your towers, place the side covers back onto the system and lock them into place. Keep the key(s) in an easy place to find later such as keychain of owner or manager or in the cash register drawer.

12. **IMPORTANT:** This unit is a sender/receiver type unit. It requires both towers to be on and communicating with each other in order to work.

There are small red lights at the top of the case at the bottom of the tower to let you know the tower is getting power. If you lose power to one of the towers it will not ring tags. Only the receiver tower has lights that light up when an alarm is triggered. It is also the tower that contains the beeper. The transmitter tower does have a light cover but no lights inside.



**Receiver tower has lights  
under red light cover,  
Transmitter has no lights**

### **Warranty**

Your towers are under a 2 year parts warranty. If any failure of the electronics occurs due to a manufacturing defect, the part will be replaced at no charge to the customer. Installation of such part is responsibility of the customer. Many of our parts are Plug and Play for your convenience.

Tech Support by phone is offered with the purchase of this product for a length of 5 years.

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800-934-7080 Sales, 812-877-9442 Tech support