Should you encounter any problems with your new product, please refer to this instruction manual. Be sure to file this manual in a safe place for future reference.

If you should need assistance, call our toll-free “HELP” line at:

1-800-732-2677

online at: www.petsafe.net
# Quick Start Guide for Installing Your System

**Total time required:** (typical) 6 hours or less

The Deluxe Pet Containment System is simple and easy to use. Follow these 7 easy steps. Additional details can be found on the following pages.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Estimated time required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Layout – Make a layout that is suitable for your yard, graph paper is provided on page 7. Refer to sample layouts under “Laying Out Your System”</td>
<td>30 minutes</td>
</tr>
<tr>
<td>2.</td>
<td>Locating and mounting the Fence Transmitter – Mount the fence transmitter in a dry location. A mounting template is located on the back cover of this manual.</td>
<td>30 minutes</td>
</tr>
<tr>
<td>3.</td>
<td>Layout the Boundary Wire – Lay the boundary wire above the ground according to your layout. If more than 500 feet of boundary wire is needed, you may purchase more by contacting customer service at 1-800-732-2677 or the retail store where the system was purchased. Insert stripped wire ends into wire terminals of the transmitter.</td>
<td>1 hour</td>
</tr>
<tr>
<td>4.</td>
<td>Remove the Battery Module from the Receiver – Remove the battery module by sliding the battery door latch to the unlocked position. A small coin may help. Now push, or gently pry, the tab on the battery door to lift the module out of the receiver.</td>
<td>5 minutes</td>
</tr>
<tr>
<td>5.</td>
<td>Insert the Battery Module into the Receiver – Insert (2) 3-volt lithium batteries into the module with the positive (+) side on the batteries facing the positive (+) mark on the module. Replace the battery module - Place the module into the receiver and slide the battery door latch to the locked position.</td>
<td>5 minutes</td>
</tr>
<tr>
<td>6.</td>
<td>Testing – Turn the transmitter on. Being careful to not touch the probes, approach the boundary wire holding the receiver at knee level. If the receiver beeps, the system is ready to be tested. Continue to approach the boundary wire with the receiver around the entire layout. The recommended initial distance between the boundary wire and the receiver is five feet, and can be adjusted on the transmitter.</td>
<td>15 minutes</td>
</tr>
<tr>
<td>7.</td>
<td>Burying the Wire and Placing the Flags – Cut a trench and bury the boundary wire one to three inches deep. Use a blunt tool like a paint stick to push the wire into the ground. Place the flag in the ground near the boundary where the warning beep of the receiver begins.</td>
<td>2 to 4 hours</td>
</tr>
<tr>
<td>8.</td>
<td>What’s Next? – Read Training Manual – After these steps, familiarize yourself further with the transmitter and the receiver by reading the manual. Read the training manual. Place the receiver collar on your pet to start training.</td>
<td>15 minutes</td>
</tr>
</tbody>
</table>
Components included with the system:

- Transmitter
- Receiver and Collar
- Batteries
- Owner's Manual
- Correction Key Ring

Required, but may be sold separately:

- Wire nuts or Shrink Tubing
  - 50 Boundary Flags
  - 500 feet Boundary Wire*
- *Use only Pet Containment System wire

Other items you may need:

- Straight edged spade or a lawn edger
- Wire stripping pliers
- Electrical tape
- Waterproofing compound (e.g. silicone caulk)
- Patching compound for your type of driveway or sidewalk
- PVC pipe if crossing a gravel or dirt driveway, pond or lake
- Pencil, Ruler or Protractor
- Drill with drill bit or masonry bit if drilling through wood or concrete
- Grounding rod and clamp
How the system works

The Pet Containment System consists of three primary components: FENCE TRANSMITTER, RECEIVER, and BOUNDARY WIRE (antenna).

Fence Transmitter

The Deluxe Fence Transmitter has been designed to operate with a boundary wire up to 4000 feet or 25 acres, and plugs into any standard outlet. The transmitter produces a very low frequency radio signal. The magnetic field it generates is carried by the boundary wire which serves as an antenna. The range or width of the magnetic field (i.e. the distance from the boundary wire to activate the receiver) can be adjusted from a few feet up to thirty feet by the boundary width control knob located on the transmitter.

Boundary Width Control
Width of the Correction & Warning Boundary

Power Indicators
On/Off Light

Loop Indicators
Light On- No Problems
Light Off- Possible Broken Wire

Ground and Boundary Terminals
Connect earth ground & Boundary Wires here
**Receiver with Collar**

The UL-275 Receiver contains electronics to detect the magnetic field carried by the containment boundary wire, translates them, and delivers an electrical correction. The electrical correction is delivered through two contact probes that touch the dog’s neck.

There are two sets of contact probes that can be used on your receiver. The longer probes should be used on dogs with long hair.

The UL-275 Receiver is enclosed in a waterproof case and is mounted on a polypropylene collar. The collar will fit a dog with a neck size varying from 9 to 22 inches.

The UL-275 Receiver contains a LED indicator light. The light acts as a low battery light and confirms which one of five correction levels are set.

The receiver is equipped with memory backup. After you replace the batteries in the receiver, you will **not** have to reset the correction level. The LED indicator light will flash for the correction level last set.
Laying out the System

Basic Planning Tips:

• The boundary wire must make a continuous loop back to the transmitter.

• Make a layout that is suitable for your yard, graph paper is provided on page 7. Sample layouts are provided below.

• Always round the corners of your boundary with the wire. Sharp corners will distort the signal.

• Use a double loop layout to contain your pet on one side of your home. Ref: Fence front yard only below.

• When installing a double loop, the wire must be spaced three to five feet apart to avoid canceling the signal.

• The transmitter will transmit a signal from approximately two to thirty feet on either side of the boundary wire. Be sure to leave enough area so that your dog can move about freely within the safe area boundaries.

Sample Layouts:
Containment System Layout

• Be sure to mark location of splices, twisted wire, large metal objects, or underground wiring.

• Mark Location of transmitter, and note the distance set for the boundary width between the warning beep and the correction.
**Locate the Transmitter**

- Place the transmitter INDOORS ONLY and near an electrical outlet. The transmitter is not waterproof.

- Install the transmitter at least three feet from any large metal objects such as breaker boxes, water heaters, metal garage doors, or washer and/or dryer.

- Secure the transmitter to a stationary surface using the appropriate mounting hardware. A mounting template is located on the back cover of this manual.

- When installing the transmitter make sure the wire twists are not cut off or pinched by a window, door or garage door.

- Install the transmitter only in buildings that meet state and local electrical codes, to prevent fires and electrical hazards.

- If it is necessary to drill a hole make sure there are no electrical wires, nails or screws inside the area you are drilling.

**Layout the Boundary Wire**

- Lay the wire along your proposed boundary. Connect it to the transmitter.

- Running wire parallel to electrical wires, telephone wires, television cables or antenna, or near satellite dishes will result in signal interference. If you must cross, do so at 90 degree angles.

- Twisting the boundary wires will cancel the signal in a specific area. This will allow your pet to run over this area. Current in the wires must be traveling in the opposite directions to cancel the signal. Make at least ten twists per foot to cancel the signal in the twisted wires.

**Connecting Wire to the Transmitter**

- Strip the ends of the boundary wire approximately 1/2 inch.

- Connect the boundary wire to the boundary wire terminals.

- Turn the Boundary Width Control to the number 10 setting. This will set the boundary warning zone at the maximum width. The smaller the number setting, the more narrow the boundary warning zone will be.

- Plug the AC power adapter into the power jack on the transmitter and into an electrical outlet.

- The power indicator and loop connection indicator lights should be on.
Grounding your Transmitter

Proper grounding is necessary to reduce the chance of lightning damage to your transmitter. Connect a wire between the transmitter and a ground rod buried at least 3 ft. into the ground. You may use an existing ground rod. Ground rods with clamps and 14 to 18 gauge wire may be obtained at most electrical supply stores. Locate the transmitter as close as possible to the ground rod.

Splicing the Wire

If you need more than 500 feet of wire, splice the wire together with wire nuts or shrink tubing.

*Note the location of all splices on the layout you drew for future reference. Most wire breaks occur near or at the splices.*

Begin by stripping the ends of the wires to be spliced. Insert the stripped ends into the wire nut and twist. Pull on the wires to make sure you have a strong splice connection. Apply waterproofing compound (like silicone caulk) in and around the wire nut. After the compound dries, you may also wrap the wires and the wire nuts with electrical tape to prevent them from pulling loose and to protect from moisture. If your splice or the connection pulls loose, the entire system will fail. Make sure of a secure connection.

Inserting the Battery Module in the Receiver

*Remove the Battery Module From the Receiver –* Remove the battery module by sliding the battery door latch to the unlocked position. A small coin may help. Now push, or gently pry, the tab on the battery door to lift the module out of the receiver.

*Inserting the Batteries Into the Battery Module –* Insert (2) 3-volt lithium batteries into the module with the positive(+) side on the batteries. facing the positive(+) mark on the module.
Inserting the Battery Module
Back Into the Receiver –
With the batteries placed in the battery module, place the right end of the battery module, at an angle, back into the receiver.

Test the Boundary

• Turn the transmitter on. Being careful to not touch the probes, approach the boundary wire holding the receiver at knee level. If the receiver beeps, the system is ready to be tested. If there is no beep you may have a wire break. See the section, "Locating a Wire Break", near the end of the manual. Continue to approach the boundary wire with the receiver around the entire layout. The recommended initial distance between the boundary wire and the receiver is five feet, and can be adjusted on the transmitter.

• Verify where your pet is safe within the boundary. No beeps will occur in the safe areas or over any twisted wires.

• Refer to the "LED Function and Response "chart to verify that the receiver is in the "beep only" mode. The receiver is pre-set to the "beep only" mode at the factory.

Burying the Wire

• Cut a trench one to three inches deep along your previously planned boundary. Burying the wire is recommended to prevent damage to the wire or transmitter, and to avoid possible injuries from tripping over the exposed wire.

• Be sure to maintain some slack in the wire. The wire will expand and contract with temperature variations.

• Use a blunt tool like a wooden paint stick to push the wire into the trench. Be careful not to damage the wire.
**Crossing hard surfaces:**

- Lay the wire in a convenient expansion joint or use a circular saw with a masonry blade to create a groove.

- Place the wire in the groove and cover with an appropriate patching compound. Your local hardware store can help you choose the right compound for your surface. For best results, brush away dirt or other debris before caulking.

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**Set the Boundary Width**

To set the boundary for your yard, turn the Boundary Width Control to set the warning zone at a width that is best for you and your pet. It is recommended that you set the warning zone width at least five feet from the boundary wire. It is important to balance the need for a large warning zone versus your pet's need for a “safe zone” that allows enough freedom of movement. Note that the Boundary Width Control is NOT a correction strength control. The correction level is set on the receiver. Refer to the "Receiver LED Function & Response" chart to set the correction level.

To establish where the warning zone begins, make sure the batteries are in the receiver and walk toward the boundary wire. Stop when the beeping begins, and place a boundary flag in the ground. The receiver is pre-set to the “beep only” mode to prevent an accidental correction.

The Range Switch on the side of the transmitter should be in position "B". Setting "B" is used for most yards.

If the warning zone width is less than five feet from the boundary wire, when set to "10" on the Boundary Width Control, you may need to change the Range Switch.

Try position "C", then position "A" of the Range Switch to determine which one offers the maximum warning zone width.

Adjust boundary width to allow an adequate "safe zone" for your pet.
Once the boundary is set, the receiver correction level must be set.

**Testing the System**

*Activating the Receiver-*
To activate the receiver, place the magnet portion of the key chain (provided with your kit) next to the white dot on the receiver. The indicator light will come on. Remove the magnet and count the number of flashes. This is the current correction level.

*Changing the Correction Level-*
The correction levels change incrementally from the current level and revert back to 1 from 5. Refer to the Receiver LED Function and Response table to choose the correction level that best fits your pet. To change the correction level, place the magnet to the white dot and remove within 5 seconds form the last flash. Repeat until you obtain the correction level you want.

*Testing the receiver-*
Attach the test light to the probes according to the picture.
Receiver LED Function and Response

<table>
<thead>
<tr>
<th>Receiver LED Function</th>
<th>Correction</th>
<th>LED Indicator Light Response</th>
<th>Size of Dog</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correction Level 1</td>
<td>No Correction, Beep Only</td>
<td>1 Flash</td>
<td>Training Only</td>
</tr>
<tr>
<td>Correction Level 2</td>
<td>Low Correction</td>
<td>2 Flashes</td>
<td>Less than 20lbs</td>
</tr>
<tr>
<td>Correction Level 3</td>
<td>Medium Correction</td>
<td>3 Flashes</td>
<td>20lbs - 50lbs</td>
</tr>
<tr>
<td>Correction Level 4</td>
<td>Medium High Correction</td>
<td>4 Flashes</td>
<td>Greater than 50lbs</td>
</tr>
<tr>
<td>Correction Level 5</td>
<td>High Correction</td>
<td>5 Flashes</td>
<td>Hard to Train Pets</td>
</tr>
<tr>
<td>Low Battery</td>
<td></td>
<td>Flashes every 4-5 seconds</td>
<td></td>
</tr>
</tbody>
</table>

Once the correction level has been set, must be level 2 or higher, place the test light on the receiver. Again walk toward the boundary wire until the test light begins to flash. This will indicate that the receiver and the system are working properly. Remove the test light.

If the test light did not flash, refer to Tips from the Experts to determine why your unit did not function properly.

When placing the receiver on your dog’s neck, make sure it is positioned so the probes have direct contact with the skin. Thick fur may prevent direct contact and longer probes should be used. Call customer support at 1-800-732-2677 to purchase long probes, if not provided.

The collar is properly positioned and adjusted when you are able to get one fingertip between the probe and the pet’s skin.

CAUTION: Leaving the collar on too tight and for long periods of time can cause Pressure Necrosis. This is the condition where the skin deteriorates over time. To prevent this, check and clean your pet’s neck regularly. If a rash or sore forms, remove the receiver for a few days. When replacing the collar, make sure both the probes and the pet’s neck are clean.

Tips from our Experts

Receiver Tips

Receiver does not respond when approaching the boundary wire
- Are both indicator lights lit on the transmitter?
- Check and/or replace batteries in the receiver.
- Use Test Light to verify receiver is activated. Test Light will flash if correction level is set at Level 2 or higher.
Pet does not seem to be getting a correction
• Check that collar is tight enough and that probes are touching pet’s neck
• Check the correction level of the receiver with the correction level key see “LED Function and Response” chart. If level is correct, try increasing to higher level.
• Shave pet’s fur where probes come in contact with the neck
• Longer probes may be needed to consistently contact the pet’s skin. (Contact customer service to purchase if not included in your kit.)

Pet ignores correction and runs through boundary
• Check batteries. Weak batteries can weaken the correction.
• Increase boundary width with boundary width control knob
• Repeat training steps to reinforce training with your pet
• Increase correction level

Interference
Should you notice that when testing your receiver that the boundary range is different from one section of wire to the next, then there may be interference from:
• A metal object near the transmitter or boundary wire. Remove object or relocate transmitter or wire.
• A similar fence system. Contact Customer Service to exchange your system for one that operates at a different radio frequency.

Points to remember
• The correction will get your pet’s attention, but will not harm him. The static correction is similar to what you feel when you have walked across carpeting and touch something metal or electronic. It is designed to startle, not to punish.
• Multiple dogs can be contained within the Radio Fence. Each one must be wearing a receiver.
• Test the receiver every three to six months. Battery life depends upon how often your pet tests the boundary.

Transmitter Tips
Troubleshooting
• If both power and loop indicator indicator lights are on, then the problem is not the transmitter.
• If the power indicator light is on and the loop indicator indicator light is off, see the “Short Loop Test” information to determine if transmitter is functioning properly.
• If transmitter checks out okay, then you may have a break in your boundary wire. See “How to Locate a Break in the Wire”.
• If both the power and loop indicator lights are off, then either no power is reaching the unit or the fuse for the indicator light need replacing. To replace the fuse, remove the fuse door and change out the fuse over the green printed circuit board with the spare one located in the same area.

Additional information
• The transmitter is not waterproof, and must be installed in a dry location.
• The reason that the wire is buried is so that it is not accidentally tripped over or cut. Use care when using a weed eater near the wire boundary to prevent damage to the wire.
• This system should only be used with healthy pets. Contact your veterinarian if you have concerns.
• This system is not for vicious or aggressive pets. If your pet may pose a threat to others, DO NOT USE THIS SYSTEM.
• The Radio Fence is for residential use only.
**Short Loop Test**

The Short Loop Test determines if the transmitter is functioning properly.
- Perform a short loop test by disconnecting the boundary and ground wires.
- Once completed, cut approximately 10 feet of boundary wire and connect it to the Boundary Wire Terminals.
- Spread the wire out so that it makes a circle. Set the switch located at the side of the fence transmitter, to the “B” position.
- Turn the Boundary Width Control full clockwise (all the way to the right to setting 10). If the Loop Indicator Light did not come “On,” then your transmitter may not be functioning properly.
- Disconnect one end of the circle from the Boundary Wire Terminal. If a beep does not come from the fence transmitter, refer to the Warranty Repair section.
- If the fence transmitter is functioning properly when you go through the above steps, but the Loop Indicator Light still does not come “On” when you reconnect the boundary wires, then you have a break in your wire.

**Locating the Break in the Wire**

*Please follow these steps in determining where you may have a break in your boundary wire:*

1. Check your layout for the location of the splices and verify they have a good, solid connection.
2. Check your yard to determine any possible damage to the boundary wire.

*If you still cannot find the break in the boundary wire, there are two options for locating it:*

1. Call Customer Service at 1-800-732-2677 (M-F 8AM - 8PM, Sat 9AM - 5PM & Sun 1PM - 5PM EST) and request to purchase a “Wire Break Locator” to narrow down the location of the break in the boundary wire.

- OR -

2. Follow the procedure below:
   A.) Connect both ends of your twisted boundary wire to the first Boundary Terminal located on your transmitter.
   B.) Measure and cut a new piece of wire that is half of the length of your boundary.
   C.) Locate the halfway point of your boundary, and cut the boundary wire.
   D.) Connect one end of the new wire to the second Boundary Terminal located on the fence transmitter.
   E.) With the other end of the new wire, connect it to either side of your boundary wire, where you cut it in half.
   F.) Plug in your AC adapter and check the Loop Indicator Light. If the light is “On,” test
the system with the receiver collar. You can assume the break is in the other half of the boundary.

G.) If the indicator light did not come “On,” you may assume there is a break in this portion of the boundary. As a result of there being a small chance of having more than one break in your system, you should repeat Steps E and F for the other half of the boundary. Unplug the AC adapter.

H.) You can narrow down where the break is by repeating Steps C-G. Remember when you cut another section of wire, you must splice the first cut you made and seal it with silicone. The numbers of times you repeat these steps depends on how much wire you are willing to replace.

I.) Replace the damaged wire with new wire. Note: Remember to use only Pet Containment System wire. Plug in the AC adapter.

J.) Check the Loop Indicator Light. If the light is “On,” test the system with the receiver collar.
Repair Procedure

Send your product with a brief description back to the address below complete with a legible return address. No prior authorization is needed. We recommend you ship your return via a carrier that offers tracking capabilities. You must pay the shipping or freight charges to us. We will then pay the freight charges back to you.

Your product will be replaced or repaired immediately and shipped back to you. There is a nominal labor charge for out of warranty products but all parts are free during the warranty period. If you have had your system for more than one year, call the customer service at 1-800-732-2677 to determine the labor charge.

Ship to the following warehouse:
Radio Systems Corporation
Service Warehouse
10427 Electric Avenue
Knoxville, TN 37932

It is important that you remove the collar, probes and batteries from the receiver before shipping it.

Caution!

The danger of explosion exists if the battery is replaced incorrectly. Use only the same or equivalent battery as described in this manual. Take dead batteries to a household hazardous waste collection program in your area or give to a licensed hazardous waste contractor.

Next Step: Training

Proper training of your pet is essential to the success of the Pet Containment System. Read the Training Manual completely before beginning to work with your pet using the Pet Containment System. Remember that the Pet Containment System is not a solid barrier.

Radio Systems Corporation shall not be liable for any property damage, economic loss, or any consequential damages sustained as a result of an animal crossing the boundary.
Mounting template

1 to 1 scale

DELUXE TRANSMITTER

Drill Here

3.000

Drill Here

Protected under U.S. patents 5,381,129, 5,868,103, and other patents pending.