



IN-GROUND  
FENCE™

100C

**OPERATING GUIDE**  
PLEASE READ THIS ENTIRE GUIDE BEFORE BEGINNING

Hereinafter Radio Systems Corporation®, Radio Systems PetSafe Europe Ltd., Radio Systems Australia Pty Ltd. and any other affiliate or Brand of Radio Systems Corporation may be referred to collectively as "We" or "Us".

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## IMPORTANT SAFETY INFORMATION

### Explanation Of Attention Words And Symbols Used In This Guide

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This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

#### **⚠ WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

#### **⚠ CAUTION**

**CAUTION**, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

#### **CAUTION**

**CAUTION**, used without the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in harm to your dog.

#### **NOTICE**

**NOTICE** is used to address safe use practices not related to personal injury.

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#### **⚠ WARNING**

- Don't use this product if your dog is aggressive or prone to aggressive behavior. Aggressive dogs can cause severe injury and even death to owners and others. If you're unsure whether this product is appropriate for your dog, please consult your veterinarian or a certified trainer.
- Underground cables can carry high voltage. Have all underground cables marked before you dig to bury the boundary wire. In most areas, it's a free service. Don't install, connect, or remove your system during a lightning storm. If the storm is close enough for you to hear thunder, it's close enough to create hazardous surges.
- To avoid risk of severe injury, follow all safety instructions for your power tools, and wear safety goggles during use.
- Before you begin installing the Boundary Wire, turn the Fence Transmitter OFF.
- To avoid electric shock, use the Fence Transmitter indoors in a dry location only.
- This device contains Lithium-Ion (Li-Ion) batteries; DON'T attempt to cut into or pry open the battery. Be sure to discard any used battery properly.
- Never incinerate, puncture, deform, short-circuit or charge with an inappropriate charger. Fire, explosion, property damage, or bodily harm may occur if this warning is not followed.
- There is a risk of explosion if a battery is replaced by an incorrect type. Do not short circuit, mix old and new batteries, dispose of in fire, or expose to water. When batteries are stored or disposed, they must be protected from shorting.
- The battery should be charged in areas with temperatures ranging from 32°F to 113°F / 0°C to 45°C. Recharging the battery outside of this temperature range can cause the battery to overheat, explode, or catch fire.

#### **⚠ CAUTION**

- Wire on top of the ground may be a trip hazard. Be careful when placing wires and testing the system.
- This system is NOT a solid barrier. It's designed to act as a deterrent to remind dogs to remain within the established boundary by use of static stimulation. It's important that you reinforce training with your dog on a regular basis. Since the tolerance level to static stimulation varies from dog to dog, Radio Systems Corporation CANNOT guarantee that the system will, in all cases, keep a dog within the established boundary. Not all dogs can be trained to avoid crossing the boundary! Therefore, if you have reason to believe that your dog may pose a danger to others or harm himself if he is not kept from crossing the boundary, you should NOT rely solely upon this system to confine your dog. Radio Systems Corporation shall NOT be liable for any property damage, economic loss, or any consequential damages sustained as a result of any animal crossing the boundary.
- This product is not a toy. Keep it out of the reach of children.

## **CAUTION**

- Proper fit of the collar is important. A collar worn for too long or made too tight on the dog's neck may cause skin damage ranging from redness to pressure ulcers. This condition is commonly known as bed sores.
- Avoid leaving the collar on a dog for more than 12 hours per day.
- When possible, reposition the collar on the dog's neck every 1 - 2 hours.
- Regularly recheck the fit to prevent excessive pressure; follow the instructions in this manual.
- You may need to trim the hair in the area of the Contact Points. However, never shave the dog's neck; this may lead to a rash or infection.
- Never connect a lead/leash to a collar with Contact Points. It will cause excessive pressure on the Contact Points.
- When connecting a lead/leash to a separate collar, don't allow it to put pressure on the Collar Receiver.
- Wash the dog's neck area and the Contact Points of the collar weekly with a damp cloth.
- Examine the contact area daily for signs of a rash or a sore.
- If a rash or sore is found, discontinue using this product until the skin has healed.
- If the condition persists beyond 48 hours, see your veterinarian.
- For additional information on bed sores and pressure necrosis, please visit [www.sportdog.com](http://www.sportdog.com).
- Proper training of your dog is essential to successfully using the system. During the first 2 weeks of training, don't use the system without direct supervision of your dog.
- Always remove your dog's Collar Receiver before performing any Fence Transmitter testing or adjustments. This will prevent unintended corrections.
- To prevent an unintended correction, after the boundary markers have been placed and you are beginning your containment training, be sure to set the static stimulation level on the collar back to Level 1 (or tone/vibe), and only increase if necessary.
- The boundary width of the system must be tested whenever an adjustment is made to the Boundary Area to prevent unintended corrections to your dog. Don't use an outlet protected with a residual current device (RCD) or ground fault circuit interrupter (GFCI). The system will function properly, but in rare cases, nearby lightning strikes may cause the RCD or GFCI to trip. Without system power, your dog may escape. You'll have to reset the RCD or GFCI to restore power to the system.
- This product is only for use with healthy dogs. If you're not certain that your dog is in good health, we recommend that you take your dog to a veterinarian before using this product.

## **NOTICE**

- Avoid damaging the insulation of the loop wire; damage may cause areas of weak signal and lead to failure of the boundary.
- When mowing or trimming your grass, use care not to cut the Boundary Wire.
- To protect the Fence Transmitter, disconnect the Boundary Wire and unplug the power adapter from the outlet when the system will not be used for long periods of time or prior to thunderstorms. This will prevent power surges from damaging the Fence Transmitter.
- Modification or changes to this equipment not expressly approved by Radio Systems Corporation may void the user's authority to operate the equipment.
- You should expect hundreds of recharge cycles from your battery. However, do not charge your collar every night. Charging too often can reduce battery life.

## **OTHER IMPORTANT INFORMATION**

Use of this product implies acceptance of any and all terms, conditions, and notices related to this product including, but not limited to, those found in this Operating Guide and the Insert containing important Regulatory Compliance and Safety information.

Thank you for choosing SportDOG® Brand training products. Used properly, this product will help you train your dog for containment efficiently and safely. To ensure your satisfaction, please review this owner's manual thoroughly. If you have questions regarding this product's operation, please see this manual's Frequently Asked Questions or Troubleshooting sections, contact our Customer Care Center at 1-800-732-0144, visit our website at [www.sportdog.com](http://www.sportdog.com), or view our support videos at [www.youtube.com/sportdogbrand](http://www.youtube.com/sportdogbrand).

To get the most protection out of your 2 year warranty, please register your product within 30 days at [www.sportdog.com](http://www.sportdog.com). By registering and keeping your receipt you will enjoy the product's full warranty and, should you ever need to call the Customer Care Center, we will be able to help you faster. Most importantly, your valuable information will never be given or sold to anyone. Complete warranty information is available online at [www.sportdog.com](http://www.sportdog.com).

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\*  videos available at [www.youtube.com/sportdogbrand](http://www.youtube.com/sportdogbrand)

# COMPONENTS



## OTHER ITEMS YOU MAY NEED

- Additional wire and flags (SDF-WF)
- Measuring tape
- Drill and mounting hardware
- Shovel or lawn edger
- Pliers
- Wire stripping pliers
- Scissors
- Additional gel-filled capsules and wirenuts
- Ground rod and clamp
- PVC pipe or water hose
- Circular saw with masonry blade for burying wire in hard surfaces
- Patching compound
- Staple gun
- Non-metallic collar and lead/leash

NOTE: For information on installation of your new SportDOG® Brand In-Ground Fence™ System, contact the Customer Care Center at 1-800-732-0144.

# HOW THE SYSTEM WORKS

The SportDOG® Brand In-Ground Fence™ system has been proven safe, comfortable, and effective for dogs over 8 pounds. The system works by producing a radio signal from the Fence Transmitter through up to 8,600 feet of Boundary Wire. The Boundary Wire is buried or attached to a fixed object to enclose the dog's Boundary Area. You temporarily define the Boundary Area with Boundary Flags for a visual aid in training your dog. Your dog wears a Collar Receiver with Contact Points that touch his neck and, once trained, is allowed to roam freely in the Boundary Area. When your dog reaches the Warning Zone, the Collar Receiver gives a warning beep. If your dog continues into the Stimulation Zone, a safe stimulation will be delivered through the Contact Points to get his attention until he returns to the Boundary Area.

**⚠ WARNING** Do not use this product if your dog is aggressive, or if your dog is prone to aggressive behavior. Aggressive dogs can cause severe injury and even death to their owner and others. If you are unsure whether this product is appropriate for your dog, please consult your veterinarian or a certified trainer.

## KEY DEFINITIONS

**FENCE TRANSMITTER:** The power source that transmits the radio signal through the Boundary Wire.

**BOUNDARY AREA:** The area inside the Warning Zone where your dog can roam freely.

**WARNING ZONE:** The perimeter of the Boundary Area where your dog's Collar Receiver begins to beep, warning him not to go into the Stimulation Zone.

**STIMULATION ZONE:** The zone beyond the Warning Zone where your dog's Collar Receiver will deliver a stimulation, signaling him to return to the Boundary Area.

**BOUNDARY WIDTH:** The area covered by the Warning Zone and the Stimulation Zone.

**RANGE SWITCH:** The switch to adjust the Boundary Area according to the length of Boundary Wire used.

**POWER JACK:** The jack where the Power Adapter plugs into the Fence Transmitter. The Fence Transmitter is powered by a standard electrical outlet.

**POWER LIGHT:** Indicates the Fence Transmitter is on and power is being supplied to the boundary wire.

**RANGE ADJUSTER:** The knob that adjusts the width of the Warning and Stimulation Zones.

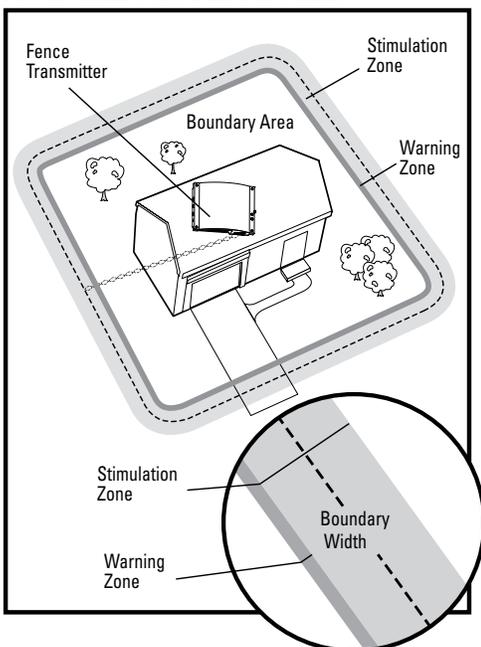
*Note: Adjusting the knob does not change the level of static stimulation on the Collar Receiver.*

**LOOP INDICATOR LIGHT:** The light that indicates that the Boundary Wire makes a complete loop, enabling the signal to be transmitted.

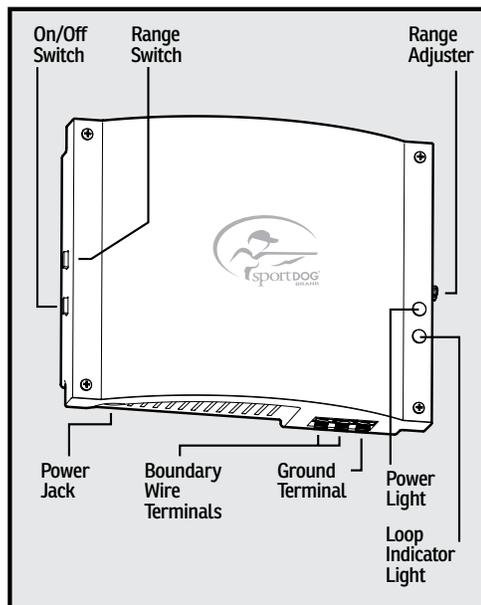
**GROUND TERMINAL:** The terminal where the ground wire connects to the Fence Transmitter.

**BOUNDARY WIRE TERMINALS:** The terminals where the Boundary Wires connect to the Fence Transmitter in order to complete a continuous loop.

## HOW THE SYSTEM WORKS

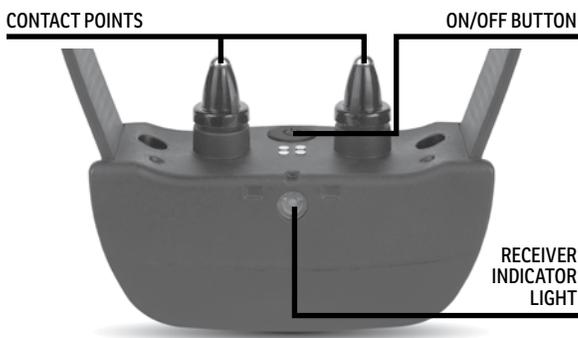


## FENCE TRANSMITTER



# KEY DEFINITIONS

## COLLAR RECEIVER



**COLLAR RECEIVER:** Receives the radio signal from the Boundary Wire. The Collar Receiver is waterproof and submersible to 25 feet.

**COLLAR RECEIVER ON/OFF BUTTON:** Turns the Collar Receiver on/off, and selects the level of stimulation.

**RECEIVER INDICATOR LIGHT:** Indicates when the Collar Receiver has been turned on or off, serves as a battery charge status indicator, and indicates the static stimulation level.

**CONTACT POINTS:** Deliver the static stimulation.

**CHARGING CRADLE AND CHARGING CONTACTS:** The Charging Cradle charges the Collar Receiver when attached to the Charging Contacts.

### THE COLLAR RECEIVER IS CAPABLE OF DELIVERING 3 TYPES OF STIMULATION:

**VIBRATION:** When set to Level 1, the Collar Receiver will vibrate when your dog enters the Stimulation Zone until he returns to the boundary area. On levels 2-8 the Collar Receiver vibrates in the Warning Zone only. There is no vibration in the Stimulation Zone.

**TONE:** The Collar Receiver will make a beeping noise when your dog is in the Warning Zone or the Stimulation Zone.

**STATIC STIMULATION:** A safe static stimulation will be delivered through the contact points to get your dog's attention at your set level (2-8) while he is in the Stimulation Zone, until he returns to the boundary area.

## STEP :: 01

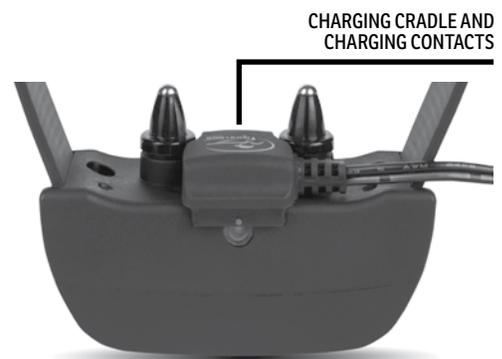
### PREPARE THE COLLAR RECEIVER

The In-Ground Fence™ Collar Receiver contains a rechargeable lithium-ion battery. When the unit indicates the battery is low (Receiver Indicator Light flashes red) it's time to recharge the unit. Average battery life is 2 months. A charger is included with the device for charging the battery from any standard outlet.

**NOTICE** Only use charging devices that are approved by Radio Systems Corporation. Our accessories are designed for your device to maximize battery life. Using other accessories may void your warranty and may cause damage to your device.

#### FOLLOW THESE STEPS TO CHARGE THE BATTERY:

1. Align the Charging Cradle with the Charging Contacts as shown in image.
2. Push down on the Charging Cradle until it snaps into place.
3. Insert the USB Type-C cable into the USB-C Power adapter
4. Plug the charger into a standard 120/240-volt AC wall outlet.
5. During charging, keep the Collar Receiver in an open, well-ventilated area.
6. When charging is complete the Indicator Light will flash green. Using Li-ion technology, the Collar Receiver only requires a 2 hour charge. It's not harmful to let the unit charge for more than 2 hours.
7. Remove the Charging Cradle from the Collar Receiver.
8. Unplug the charger from the wall outlet.



#### TO TURN THE COLLAR RECEIVER ON/OFF

Press and release the On/Off Button (located between the Contact Points) for about one second - the unit will power on immediately, as well as beep 1-8 times, depending on the static stimulation range setting (1 is the default setting). To turn the unit off, press and hold the On/Off Button for 3 seconds. A long beep will sound, the Receiver Indicator Light will turn red, then the unit will turn off.

## SET THE COLLAR RECEIVER STIMULATION

The Collar Receiver has 8 stimulation settings. Setting 1 is vibration and tone only, and Settings 2-8 are static stimulation levels with 2 being the lowest static stimulation, and 8 being the highest.

1. Make sure the Collar Receiver is off.
2. Turn the Collar Receiver on by pressing and releasing the On/Off Button. The Receiver Indicator Light will display solid green or red depending on battery status, and beep according to the current stimulation setting (level is set to 1 by default).
3. After the Receiver Indicator Light turns off, and within 5 seconds, press and hold the On/Off Button for 2 seconds to enter the stimulation selection mode. The Collar Receiver will then emit a series of orange flashes that correspond to the current stimulation setting (e.g. 4 orange flashes means Collar Receiver is currently set to setting 4).
4. Press the On/Off Button to increase the stimulation setting by one, indicated by a solid orange light, then release.
5. Repeat Step 4 until the desired stimulation range is reached (refer to the chart below), and then wait 5 seconds for the Collar Receiver to turn off, indicated by a red Receiver Indicator Light and a 2 second tone. The stimulation setting is now set.
6. Turn the Collar Receiver back on. It will then beep 1-8 times according to the stimulation setting selected in Step 5.

### RECEIVER STIMULATION LEVEL

STIMULATION SETTING	RECEIVER INDICATOR LIGHT AND TONE	STATIC STIMULATION LEVEL	COLLAR RECEIVER FUNCTION	DOG'S TEMPERAMENT
1	1 flash and beep	No static	Vibration and tone	N/A
2	2 flashes and beeps	1	Low static stimulation	Timid
3	3 flashes and beeps	2	Low static stimulation	Timid or average
4	4 flashes and beeps	3	Medium static stimulation	Average
5	5 flashes and beeps	4	Medium static stimulation	Average
6	6 flashes and beeps	5	Medium static stimulation	Average or Stubborn
7	7 flashes and beeps	6	High static stimulation	Stubborn
8	8 flashes and beeps	7	High static stimulation	Stubborn

### RECEIVER INDICATOR LIGHT

OPERATIONAL MODE	LIGHT COLOR	BATTERY STATUS	LIGHT FUNCTION	SPEAKER FUNCTION	VIBRATION
Unit is turned on via On/Off Button	Green	Good	Light is solid in color during beep sequence	Beeps 1-8 times depending on stimulation setting (1 is the default setting)	N/A
Unit is turned on via On/Off Button	Red	Low	Light is solid in color during beep sequence		
Unit is turned off via On/Off Button	Red	N/A	Light is solid in color during beep sequence	Beeps continuously for 2 seconds	N/A
Unit is on	Green	Good	Light flashes every 4 seconds	N/A	N/A
Unit is on	Red	Low	Light flashes every 4 seconds	N/A	N/A
Unit is delivering a containment warning stimulation	Green	N/A	Light will quickly flash for 2 seconds	Unit will beep quickly for 2 seconds	Unit will vibrate intermittently for 2 seconds
Unit is delivering a containment anti-linger stimulation	Red	N/A	Light will quickly flash (up to 15 seconds)	Unit will beep quickly	N/A
Unit is delivering a containment run-through stimulation	Red	N/A	Light will quickly flash (up to 15 seconds)	Unit will beep quickly	N/A
Unit is charging	Green	Low	Light is solid in color while on the charger	N/A	N/A
Unit is fully charged (charger still connected)	Green	Good	Light flashes once per second once the battery is completely charged	N/A	N/A

## STEP :: 02

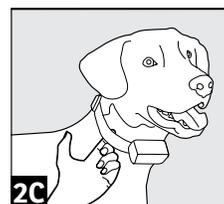
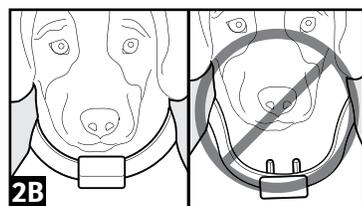
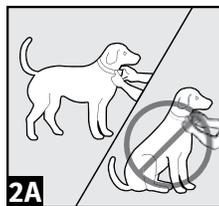
### FIT THE COLLAR RECEIVER

**IMPORTANT: THE PROPER FIT AND PLACEMENT OF THE IN-GROUND FENCE™ COLLAR RECEIVER IS IMPORTANT FOR EFFECTIVE OPERATION. THE CONTACT POINTS MUST HAVE DIRECT CONTACT WITH YOUR DOG'S SKIN.**

**CAUTION** See page 3 for Important Safety Information.

To ensure a proper fit, follow these steps:

1. Make sure the unit is off.
2. With your dog standing (2A), center the Collar Receiver so the Contact Points are underneath your dog's neck, touching the skin (2B). If your dog has a long or thick coat, you have 2 options to ensure consistent contact: either trim the hair around the Contact Points or switch to the longer Contact Points included with your system.
3. The Collar Receiver should fit snugly, yet loose enough to allow one finger to fit between the strap and your dog's neck (2C).
4. Allow your dog to wear the collar for several minutes and then recheck the fit. Check the fit again as your dog becomes more comfortable wearing the collar.



#### CAUTION

- You may need to trim the hair in the area of the Contact Points. Never shave the dog's neck; this may lead to a rash or infection.
- You shouldn't make the collar any tighter than is required for good contact. A collar that is too tight will increase the risk of pressure necrosis in the contact area.

## STEP :: 03

### INSTALL THE FENCE TRANSMITTER

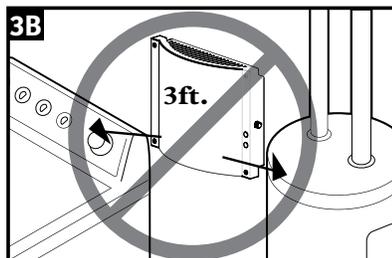
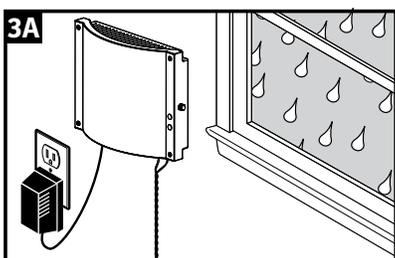
**WARNING** To avoid electric shock, use the Fence Transmitter indoors in a dry location only.

Place the Fence Transmitter:

- In a dry, well ventilated, protected area (3A).
- In an area out of the weather (garage, basement, shed, closet).
- Secured to a stationary surface using appropriate mounting hardware (not included). A mounting template is included on page 26 of this Guide.
- At least 3 feet from large metal objects or appliances as these items may interfere with the signal consistency (3B).
- As close as possible to your home's Grounding Electrode. This is required to keep the Ground Wire as short as possible.

Once you have mounted the Fence Transmitter, the Boundary Wire must exit the building. This can be accomplished via a window or through a hole drilled through the wall. Ensure the drill path is clear of any utilities. Make sure the Boundary Wire isn't cut off or pinched by a window, door, or garage door, as this can damage it over time.

To prevent fires and electrical hazards, install the Fence Transmitter in buildings that are in accordance with state and local electrical and building codes.



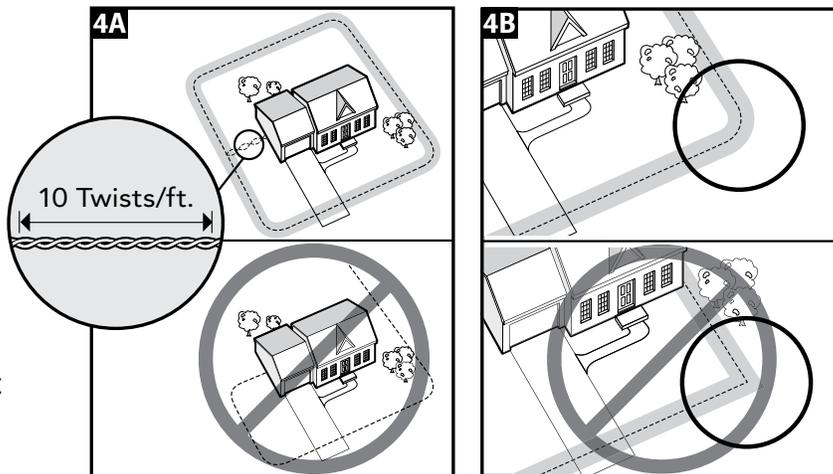
# STEP :: 04

## LAY OUT THE SYSTEM

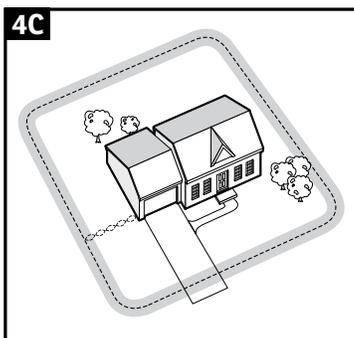
### BASIC PLANNING TIPS

**⚠ WARNING** Underground cables can carry high voltage. Have all underground cables marked before you dig to bury your wire. In most areas, this is a free service. Avoid these cables when you dig.

- The Boundary Wire **MUST** start at the Fence Transmitter and make a continuous loop back (4A).
- Twisting the Boundary Wire cancels the signal and allows your dog to cross over that area without correction. Plastic or metal piping will not cancel the signal. Twist the Boundary Wire 10 to 12 times per foot to cancel the signal (4A).
- Design a layout that's suitable for your yard. Sample layouts are provided below, on the following page, and a grid for designing your layout is provided on page 26.
- Always use gradual turns at the corners with a minimum 3 foot radius to produce a more consistent boundary (4B). Don't use sharp turns, as this will cause gaps in your boundary.
- We recommend setting a Boundary Width for the Warning and Stimulation Zones to approximately 16-24 feet (8-12 feet on each side of the wire).
- Avoid making passageways too narrow for your dog to move about freely (e.g., along the sides of a house).
- The Collar Receiver can be activated inside the house if the Boundary Wire runs along the outside wall of the house. If this occurs, remove your dog's Collar Receiver before bringing him inside, decrease the range using the Range Adjuster, or consider an alternative layout.

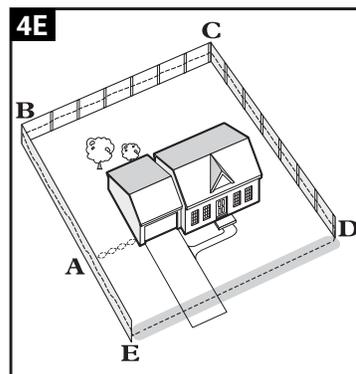
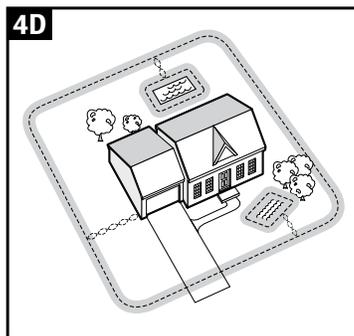


## SAMPLE LAYOUTS



Sample 1: Perimeter Loop (Single Loop)

The Perimeter Loop is the most common layout. This will allow your dog to freely and safely roam your entire property (4C). It can also protect gardens, pools, and landscaping (4D).



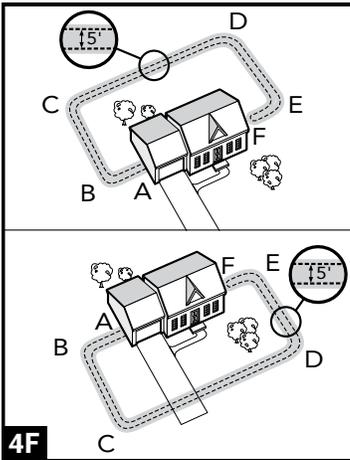
Sample 2 (4E): Perimeter Loop Using Existing Fence (Single Loop)

This layout allows you to include your existing fence as part of your layout and keeps your dog from jumping out or digging under it. It reduces the amount of wire which will need to be buried. From the Fence Transmitter, run the wire to A, A to B, B to C, C to D, D to E, E to A, twisting the wires from A back to the Fence Transmitter. See the "Install the Boundary Wire" section for more information on attaching the wire to a fence on page 15.

## DOUBLE LOOP (4F, 4G, 4H, 4I)

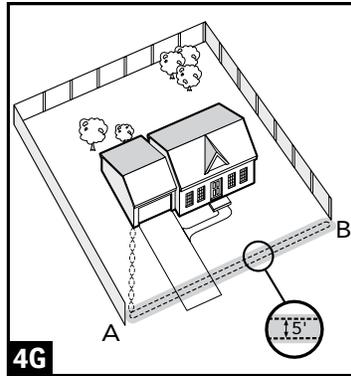
A Double Loop must be used when you aren't establishing the Boundary Area on all sides of your property.

When using a Double Loop, the Boundary Wire must be separated by a minimum of 5 feet to avoid canceling the signal. Remember that a Double Loop will require twice as much wire.



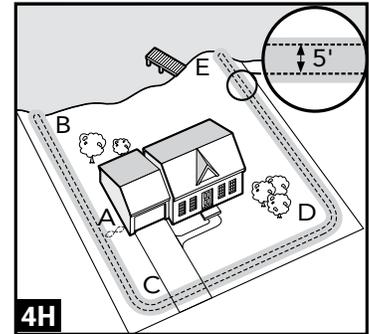
Sample 3: Front or Back Yard Only (Double Loop)

From the Fence Transmitter, run the wire to **A**, **A** to **B**, **B** to **C**, **C** to **D**, **D** to **E**, **E** to **F**, make a U-turn and follow your path all the way back to **A**, keeping the wire separated at least 5 feet. Twist the wire from **A** back to the Fence Transmitter.



Sample 4: Front Boundary Only (Double Loop)

From the Fence Transmitter, run the wire to **A**, **A** to **B**, **B** back to **A** keeping the wire separated at least 5 feet. Twist the wire from **A** back to the Fence Transmitter.

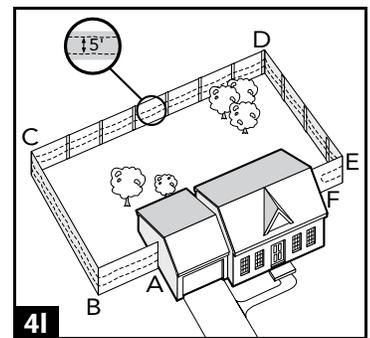


Sample 5: Lake Access (Double Loop)

From the Fence Transmitter, run the wire to **A**, **A** to **B**, make a U-turn and go to **C**, **C** to **D**, **D** to **E**, make a U-turn and follow your path all the way back to **A** keeping wire separated at least 5 feet. Twist the wire from **A** back to the Fence Transmitter.

Sample 6: Wire Loop Attached to Existing Fence (Double Loop)

This layout allows you to include your existing fence as part of your layout and keeps your dog from jumping out or digging under it. It reduces the amount of wire which will need to be buried. Run the wire from the Fence Transmitter to **A**, **A** to **B**, **B** to **C**, **C** to **D**, **D** to **E**, **E** to **F**, make a U-turn and follow your path all the way back to **A**, keeping the wire separated at least 5 feet. Twist the wire from **A** back to the Fence Transmitter. See the "Install the Boundary Wire" section on page 15 for more information on attaching the wire to a fence.



## STEP :: 05

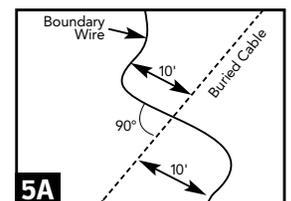
### POSITION THE BOUNDARY WIRE

**CAUTION** Wire on top of the ground may be a trip hazard. Be careful when placing wires and testing the system.

Lay out the Boundary Wire using your proposed boundary, and test the system **BEFORE** burying the wire or attaching it to an existing fence. This will make any layout changes easier. Work carefully, a nick in the wire insulation can diminish the signal strength and create a weak area where your dog can escape.

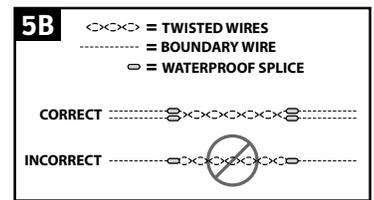
Running the Boundary Wire parallel to and within 10 feet of electrical wires, neighboring containment systems, telephone wires, television or antenna cables, or satellite dishes will cause an inconsistent signal. If you must cross any of these, do so at 90-degree angles (5A).

If separating your Boundary Wire by at least 10 feet from a neighboring containment system's wire doesn't reduce the inconsistent signal, contact the Customer Care Center.



## TO TWIST THE BOUNDARY WIRE

Twisting the Boundary Wire cancels the signal and allows your dog to cross over that area without receiving a correction. To ensure the signal is cancelled, it's recommended that you cut and splice the Boundary Wire between each twisted section. The signal cannot be cancelled by running the wire through plastic or metal piping. Splicing shielded cable to the Boundary Wire will also not cancel the signal. Refer to figure (5B) for the correct method for twisting the wire. You can twist your own wire by cutting 2 equal lengths of Boundary Wire supplied and twisting them together. Anchor one end of the wires to something secure and insert the other end in a power drill. Pull the wire taut. The drill enables you to twist the wire quickly. Twist the Boundary Wire 10-12 times per foot to cancel the signal. Once you have completed your boundary layout, insert the twisted wire into the Fence Transmitter.



## TO SPLICE OR REPAIR THE BOUNDARY WIRE

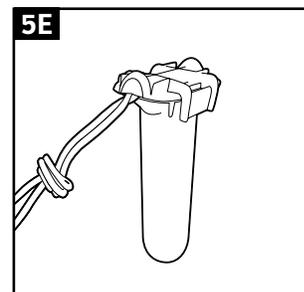
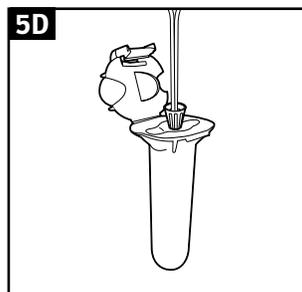
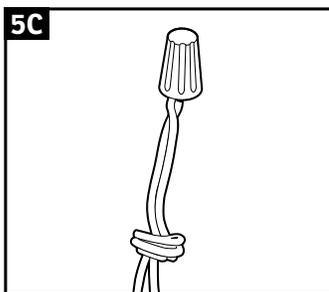
If you need additional Boundary Wire to expand your wire loop, you'll need to splice the wires together. Note the locations of all splices for future reference.

Strip approximately 3/8-inch of insulation off the ends of the Boundary Wires to be spliced. Make sure the copper Boundary Wire isn't corroded. If the Boundary Wire is corroded, cut it back to expose clean copper wire.

Insert the stripped ends into the wire nut and twist the wire nut around the wires. Ensure that there is no copper exposed beyond the end of the wire nut. Tie a knot 3 - 4 inches from the wire nut (5C). Ensure that the wire nut is secure on the wire splice.

Once you have securely spliced the wires together, open the lid of the gel-filled splice capsule and insert the wire nut as deeply as possible into the waterproof gel inside the capsule (5D). Snap the lid of the capsule shut (5E). For proper system performance, the splice connection must be waterproof.

If your splice pulls loose, the entire system will fail. Make sure your splice is secure. Additional gel-filled splice capsules and wire nuts are available through the Customer Care Center.



## ADDITIONAL BOUNDARY WIRE

We recommend the use of 20-gauge insulated solid copper wire for direct burial. Extra Boundary Wire can be purchased in 500-foot spools through the Customer Care Center.

*Note: When adding Boundary Wire, it must act as a continuous loop.*

The table below indicates the approximate length of Boundary Wire needed for a rectangular, Single Loop layout. Length will vary due to the amount of twisted wire and layout used.

YARD SIZE (ACRES):	1/4	1/3	1/2	1	2	5	10	20	30	40	50	60	70	80	90	100
FEET OF WIRE NEEDED:	415	480	590	835	1180	1870	2800	3750	4600	5330	5900	6500	7000	7500	8000	8350

## STEP :: 06

### CONNECT THE WIRES TO THE FENCE TRANSMITTER

**⚠WARNING** Don't install, connect, or remove your system during a lightning storm. If the storm is close enough for you to hear thunder, it's close enough to create hazardous surges.

**NOTICE** For added protection, when unused for long periods of time or prior to thunderstorms, unplug from the wall outlet and disconnect the Loop Boundary Wires. This will prevent damage to the Fence Transmitter due to surges.

#### BOUNDARY WIRE (6A)

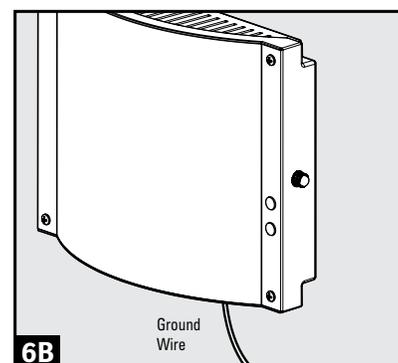
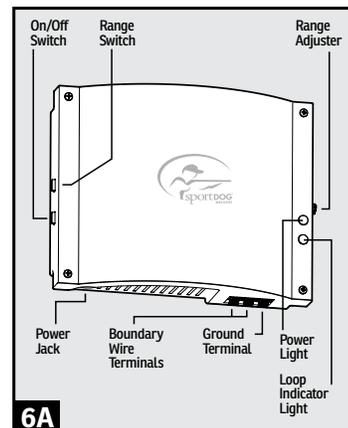
1. Run the Boundary Wire to the Fence Transmitter through a window, under a door, through a crawl space vent, or any other appropriate available access. You can also drill a hole through your wall.
2. Strip the ends of the Boundary Wire approximately 3/8-inch.
3. Insert the Boundary Wires into the Boundary Wire Terminals on the Fence Transmitter.
4. Plug the Power Adapter into the Power Jack and an electrical outlet.
5. The Power Light and Loop Indicator Lights should come on. If this doesn't happen, see the "Troubleshooting" section on page 20.

#### GROUND WIRE (6B)

Proper grounding, although not necessary for the system to work, will help reduce the chance of electrical surges causing damage to your Fence Transmitter and/or Power Adapter. To ground your unit, you'll need a solid (not stranded) Ground Wire (14-18 gauge insulated copper wire) and an appropriate UL listed clamp, which may be obtained at most home improvement and electrical supply stores. Connect one end of the Ground Wire to the Ground Terminal located on the Fence Transmitter and the other end of the Ground Wire to your home's Grounding Electrode. The Ground Wire must be as short as possible and routed using the least number of bends possible. When routing the Ground Wire, sharp 90-degree bends should be avoided, swept bends are preferred. If you're uncertain about how best to connect the Ground Wire, consult a local licensed electrician.

#### SURGE PROTECTION (USA & CANADA)

You may purchase a Surge Protection Kit (LP-4100) through the Customer Care Center. The Surge Protection Kit protects the system against surges that travel through the power source and/or the Boundary Wire. If you use a Surge Protection Kit, the Ground Wire must be removed from the Fence Transmitter. The Surge Protection Kit utilizes a ground connection separate from the Fence Transmitter.



## STEP :: 07

# SET THE BOUNDARY WIDTH AND TEST THE COLLAR RECEIVER

The Range Switch on the side of the Fence Transmitter has 2 settings. Set the Range Switch to LOW if the amount of wire used for your property is less than 2,800 feet (less than 10 acres). Set the Range Switch to HI if you used between 2,800 and 8,600 feet of wire (10-100 acres).

Use the Range Adjuster Knob to set the width of the Warning Zone and Stimulation Zone (7A). Set the Boundary Width as wide as possible to give your dog the widest Warning and Stimulation Zones without reducing the Boundary Area too much.

The numbers on the Range Adjuster Knob indicate signal strength and aren't representative of Boundary Width footage. If adjusting the Range Adjuster Knob doesn't give the desired range, adjust the Range Switch to the other setting to achieve your desired range.

*Note: The Range Adjuster Knob doesn't change the static stimulation level.*

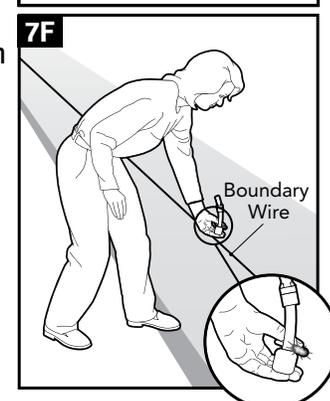
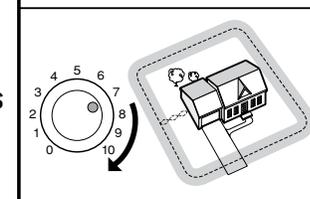
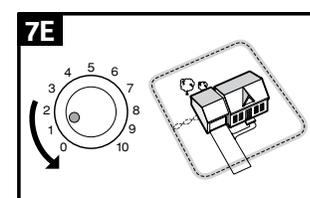
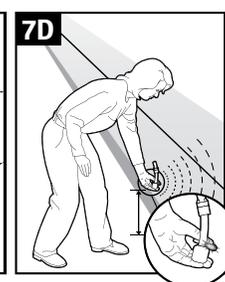
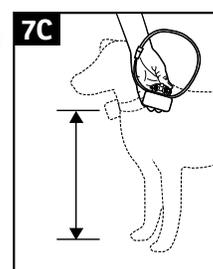
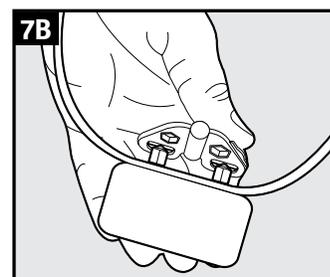
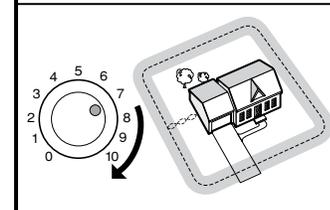
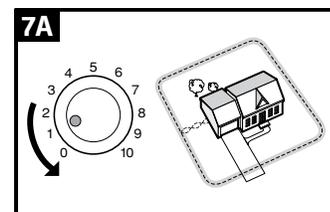
**CAUTION** The Collar Receiver SHOULD NOT be on your dog when the system is tested. Your dog may receive an unintended correction.

1. To identify the Warning and Stimulation Zones, make sure the Collar Receiver's stimulation level is set to 2 or above (see SET THE COLLAR RECEIVER STIMULATION LEVEL on page 8).
2. Test the Boundary Width of the system by selecting a section of straight Boundary Wire that is at least 50 feet long. Start inside the center of the containment field.
3. Place the Test Light Tool Contacts on the Contact Points of the Collar Receiver (7B). Hold the Collar Receiver at your dog's neck height with the Contact Points pointing up (7C) and the Receiver Indicator Light facing the Boundary Wire. Slowly walk toward the Boundary Wire until you hear the warning beep (7D). When you hear the warning beep, you have identified the Boundary Width distance (Static Correction Zone). Two seconds after the warning beep, the test light will begin to flash. This flashing light can aid you in identifying the Boundary Width should you have difficulty hearing the beep. To avoid having the Collar Receiver go into Over Correction Protection mode, walk back into the Boundary Area until the beeping stops. If the Collar Receiver does not beep at the desired range, adjust the Boundary Width Control knob to obtain the desired range. Turning the Boundary Width Control knob clockwise increases the Boundary Width while turning it counterclockwise decreases it (7E). Repeat this activity as needed until the Collar Receiver beeps between 6 - 10 feet from the Boundary Wire. If using a Double Loop layout, you may need to increase the separation of the Boundary Wire and/or increase the size of the Boundary Width to achieve the desired range.
4. Test in a number of different locations around the containment area until you are satisfied that the system is functioning properly.
5. Next, walk all around the Boundary Area to ensure there are no areas where the Collar Receiver may activate from signals coupled onto buried wires or cables. Test the collar in and around the inside of the house as well. As mentioned, cable and wires from cable TV, electrical, or telephone lines may conduct dog fencing signals inside and outside the house that can activate the dog's collar accidentally. While rare, if this occurs your Boundary Wire is probably too close to these outside lines and should be moved or modified as shown in Figure (5A).
6. To test the run-through prevention feature, walk towards the Boundary Wire. The Collar Receiver should beep and the Test Light should flash brighter as you enter the run-through area (7F). If you are satisfied that your system is functioning properly, you are ready to start burying the Boundary Wire. If the Collar Receiver didn't beep or the Test Light didn't flash, see the "Troubleshooting" section (on page 20).

### CAUTION

To prevent an unintended correction for your dog, test the Boundary Area and Width after any change.

*Note: The Boundary Width is broken down into 20% Warning Zone and 80% Stimulation Zone.*



## STEP :: 08

### INSTALL THE BOUNDARY WIRE

#### ⚠ WARNING

- Underground cables can carry high voltage. Have all underground cables marked before you dig to bury your wire. In most areas, it's a free service. Avoid these cables when you dig.
- Before you begin installing the Boundary Wire, turn the Fence Transmitter OFF.

#### TO BURY THE BOUNDARY WIRE

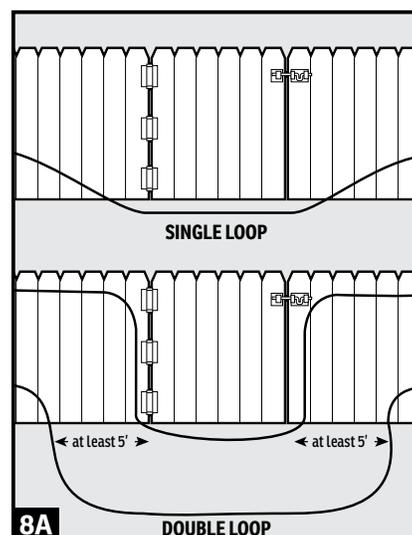
Burying the Boundary Wire is recommended to protect it and prevent disabling the system.

1. Cut a trench 1-3 inches deep along your planned boundary.
2. Place the Boundary Wire into the trench maintaining some slack to allow it to expand and contract with temperature variations.
3. Use a blunt tool such as a wooden paint stick to push the Boundary Wire into the trench, being careful not to damage the Boundary Wire insulation.

#### TO ATTACH THE BOUNDARY WIRE TO AN EXISTING FENCE (8A)

The Boundary Wire of the SportDOG® Brand In-Ground Fence™ system can be attached to a chain link fence, split rail fence, or a wooden privacy fence. The Boundary Wire can be attached as high as needed. However, make sure the Boundary Width is set to a high enough range for the dog to receive the signal. If using a Double Loop with an existing fence at least 5 feet tall, run the Boundary Wire on top of the fence and return it on the bottom of the fence to get at least 5 feet of separation.

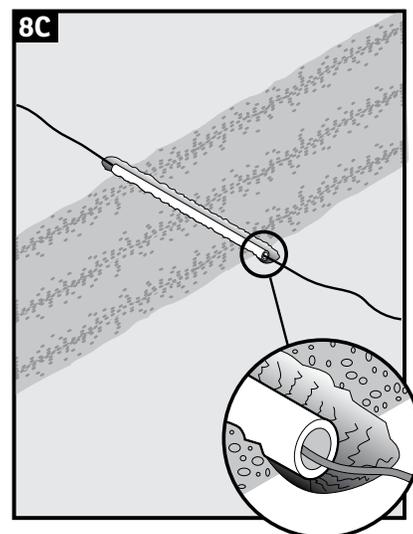
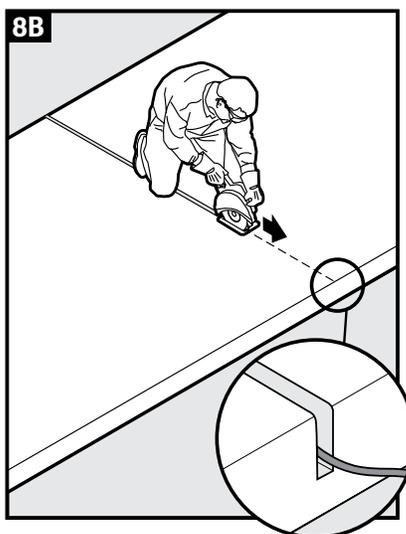
- Chain Link Fence: Weave Boundary Wire through the links or use plastic quick ties.
- Wooden Split Rail or Privacy Fence: Use staples to attach Boundary Wire. Avoid puncturing the insulation of the Boundary Wire.
- Gate (Single Loop): Bury the Boundary Wire in the ground across the gate opening.  
*Note: The signal is still active across the gate. Your dog can't pass through an open gate.*
- Gate (Double Loop): Bury both Boundary Wires across the gate opening while keeping them at least 5 feet apart.



#### TO CROSS HARD SURFACES (DRIVEWAYS, SIDEWALKS, ETC.)

⚠ WARNING Follow all safety instructions for your power tools. Be sure to always wear your safety goggles.

- Concrete Driveway or Sidewalk (8B): Place the Boundary Wire in a convenient expansion joint or create a groove using a circular saw and masonry blade. Place the Boundary Wire in the groove and cover with an appropriate patching compound. For best results, brush away dirt or other debris before patching.
- Gravel or Dirt Driveway (8C): Place the Boundary Wire in a PVC pipe or water hose to protect the Boundary Wire before burying.

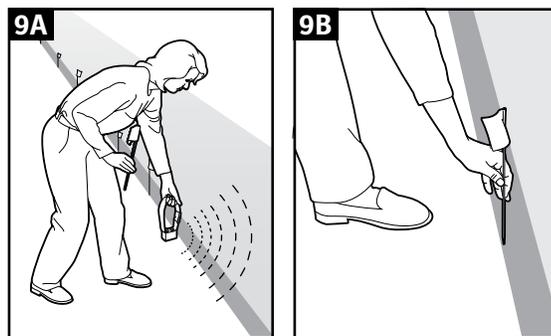


## STEP :: 09

### PLACE THE BOUNDARY FLAGS

The Boundary Flags are visual reminders for your dog to show where the Warning Zone is located.

1. Hold the Collar Receiver at your dog's neck height with the Contact Points facing up.
2. Walk towards the Warning Zone until the Collar Receiver beeps (9A).
3. Place a Boundary Flag in the ground (9B).
4. Walk back into the Boundary Area until the beeping stops.
5. Repeat this process around the Warning Zone until it is marked with Boundary Flags every 10 feet.



## TRAINING GUIDE

### BE PATIENT WITH YOUR DOG

**CAUTION** Proper training of your dog is essential to successfully using the system. During the first 2 weeks of training, don't use the system without direct supervision of your dog.

**IMPORTANT:** Read this section completely before beginning to train your dog. REMEMBER THAT THE SYSTEM IS NOT A SOLID BARRIER.

- Have fun with your dog throughout the training process. Training should be fun, fair, firm, and consistent.
- Train for 10-15 minutes at a time. Don't try to do too much too quickly. More-frequent short sessions are better than less-frequent longer sessions.
- If your dog shows signs of stress, slow down the training schedule, add additional days of training, or increase the amount of play time with your dog in the Boundary Area. Common stress signals include:
  - Dog pulling on leash toward the house
  - Ears tucked
  - Tail down
  - Body lowered
  - Nervous/frantic movement or stiffening of dog's body
- Your dog must be completely comfortable near the Boundary Flags at the end of every training session. Spend at least 5 minutes of "play time" at the completion of each session within 10 feet of the Boundary Flags.
- Finish each training session on a positive note with lots of praise and play.
- Remove the Collar Receiver after each training session.
- Be sure to contain your dog by another means during the training period (pen, tie-out, leash, etc.).
- During training, if you need to take your dog out of the Boundary Area, remove the Collar Receiver and either pick your dog up or put him in the car to pass out of the Boundary Area.
- Even if you think your dog is responding well to the training, complete the entire training. Reinforcement is important!

## PHASE :: 01

### DAY 1 - BOUNDARY FLAG AWARENESS

Perform 3 sessions on day 1, each training session lasting 10-15 minutes.

#### GOAL:

To have your dog learn that the Boundary Flags and warning beep from the Collar Receiver define the new Boundary Area.

#### SETUP:

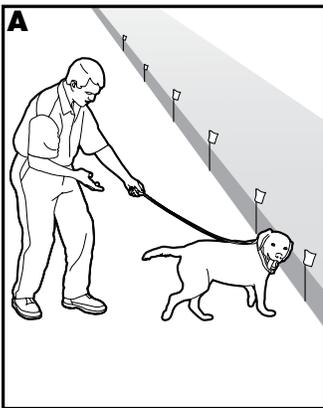
- Begin training with Level 2 and only increase if your dog doesn't respond to the static stimulation.
- Put a separate non-metallic collar on your dog's neck ABOVE the Collar Receiver and attach a lead/leash.

**CAUTION** Be sure the extra collar doesn't put pressure on the Contact Points.

- Have tiny pieces of treats available.  
*Note: Never allow your dog to eat the treat in the Stimulation Zone.*
- Have your dog's favorite play toy available.

## STEPS:

1. Begin by walking your dog on a lead/leash in the Boundary Area. Calmly praise and talk to your dog, occasionally giving treats.
2. Move toward the Boundary Flags (A). Keep your mood happy and throw treats to the ground.
3. With full control of your dog on a lead/leash, toss a treat on the outside edge of the flags. As your dog enters the Stimulation Zone to receive the treat, he will begin to receive a mild static stimulation (B). The longer your dog remains in the Stimulation Zone, the stronger the static stimulation will get. Allow him to stay in the Stimulation Zone for 2 seconds then gently help your dog back into the Boundary Area (C). Immediately praise and offer him a treat as he enters the Boundary Area, even if you have helped with the lead/leash. Wiggle a Boundary Flag to help your dog understand that the discomfort of the static stimulation happens around the flags.
4. Repeat this process at the same Boundary Flag until your dog resists going into the Stimulation Zone.
5. Aim to master 3-4 Boundary Flags per session. Make this FUN! Praise your dog if he quickly retreats or resists going into the Stimulation Zone.



## PHASE :: 02

### DAYS 2 THRU 4 - CONTINUE BOUNDARY FLAG AWARENESS

Perform 3 sessions per day, each lasting 10-15 minutes.

#### GOAL:

To train your dog to stay in the Boundary Area and respect the boundary while you are outside of it.

#### SETUP:

- Begin training with Level 2 and only increase if your dog doesn't respond to the static stimulation.
- Put a separate non-metallic collar on your dog's neck ABOVE the Collar Receiver and attach a lead/leash.

**CAUTION** Be sure the extra collar doesn't put pressure on the Contact Points.

- Have tiny pieces of treats available.
- Have your dog's favorite play toy available.

#### STEPS:

1. Repeat Steps 1-4 in PHASE 1.
2. Drop the lead/leash, leaving your dog in the Boundary Area.
3. Walk outside the boundary and wiggle the Boundary Flags facing your dog.
4. Continue around the entire boundary doing this, tossing treats to your dog in the Boundary Area and praising him.

## PHASE :: 03

### DAYS 5 THRU 8 - DISTRACTION PHASE

Perform 3 training sessions per day, each lasting 10-15 minutes.

#### GOAL:

To train your dog to stay within the Boundary Area with distractions outside of the Boundary Area.

#### SETUP:

- Begin training with Level 2 and only increase if your dog doesn't respond to the static stimulation.
- Put a separate non-metallic collar on your dog's neck ABOVE the Collar Receiver and attach a lead/leash.

**CAUTION** Be sure the extra collar doesn't put pressure on the Contact Points.

- Have tiny pieces of treats available.
- Have your dog's favorite play toy available.
- Create distractions to tempt your dog to enter the Warning and Stimulation Zones, such as:
  - Have a family member cross from inside the Boundary Area to outside of it.
  - Throw a ball outside of the Boundary Area.
  - Have a neighbor walk their dog outside of the Boundary Area.

**STEPS:**

1. With full control of your dog on a lead/leash, have the distraction presented.
2. If your dog doesn't move toward the distraction, praise and offer a treat.
3. If your dog does react to the distraction, allow him to go into the Stimulation Zone.
4. Help your dog back into the Boundary Area if he doesn't turn back after 3 seconds.
5. Give treats and praise your dog anytime he comes back into the Boundary Area with or without help.
6. Repeat this process with other distractions. Use other family members during this process.

## PHASE :: 04

### DAYS 9 THRU 14 - UNLEASHED SUPERVISION

Training sessions should start at 10-15 minutes, gradually increasing to more than an hour.

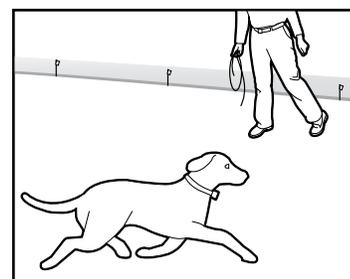
Your dog is ready for this step only when he clearly avoids the entire Boundary Flag line, regardless of any distractions or temptations. During this step, don't leave your dog unattended.

**GOAL:**

To give your dog free run of the Boundary Area off the lead/leash.

**SETUP:**

Adjust the Collar Receiver to the setting appropriate for your dog depending on his size and temperament.



## PHASE :: 05

### DAYS 15 THRU 30 - MONITORING YOUR DOG

Your dog is ready to run! Check in on your dog at regular intervals.

*NOTE: After you're satisfied, your dog's training is complete. Remove every other Boundary Flag every 4 days until all flags are removed. Save Boundary Flags for future use.*

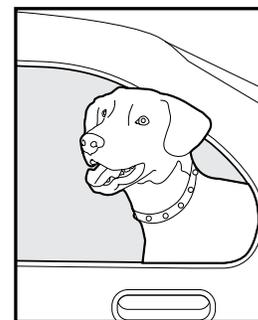
## TAKING YOUR DOG OUT OF THE BOUNDARY AREA

**IMPORTANT:** Remove the Collar Receiver from your dog.

Once your dog learns the Boundary Area, he'll be reluctant to cross it for walks or car rides.

**Option 1:** Replace the Collar Receiver with a regular collar. Put your dog in a car that's within the Boundary Area and drive him out of the Boundary Area.

**Option 2:** Replace the Collar Receiver with a regular collar and lead/leash. Walk your dog out of the Boundary Area while giving a command such as "OK" at a specific place of the Boundary Area (the end of your driveway, sidewalk, etc.). Always leave the Boundary Area with a lead/leash at this place and your dog will associate leaving the Boundary Area only on a lead/leash, only at this place, and only with a person. You may initially need to convince your dog to leave the Boundary Area with a food treat and lots of praise. You may also carry your dog out of the Boundary Area.



**Congratulations! You've now successfully completed the containment training program.**

# ACCESSORIES

To purchase additional accessories for your SportDOG® Brand product visit our website at [www.sportdog.com](http://www.sportdog.com), contact the Customer Care Center at 1-800-732-0144, or visit a retailer near you.

\*Be sure your in-ground loop system is grounded to provide some protection against voltage surges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the lead-in wire to an antenna discharge unit and location of the antenna-discharge unit. A LP-4100 (Surge Protection Kit) can be used for this purpose, as well as, to help protect against power line surges. The LP-4100 is available by contacting the Customer Care Center.

## FREQUENTLY ASKED QUESTIONS

<b>Is the static stimulation safe for my dog?</b>	While Continuous and/or Momentary static stimulation may be unpleasant, it's harmless to your dog. Electronic training devices require interaction and training from the owner to achieve desired results.
<b>How old does my dog have to be before starting to train on the In-Ground Fence™ system?</b>	Because all dogs are different, training on the system can be started once your dog can learn basic obedience commands like "sit" and "stay." The system is safe of all dogs over 8 pounds. The adjustable collar and static stimulation levels allow you to create a perfect solution for your dog.
<b>Once my dog is trained and has been obeying my commands, will my dog have to continue to wear the Collar Receiver?</b>	Yes. Your dog will always need to wear the Collar Receiver for containment (up to 12 hours per day).
<b>Is the Collar Receiver waterproof?</b>	Yes, up to 25 feet. using DryTEK® Technology.
<b>Can my Collar Receiver be used around salt water?</b>	Yes. However, if the Collar Receiver is used in or around salt water, it should be rinsed with fresh water following each use.
<b>Can I use the system on aggressive dogs?</b>	We don't recommend any of our products to be used on aggressive dogs. We recommend you contact your local veterinarian or professional trainer to determine if your dog might be aggressive.
<b>What do I do if my dog's neck becomes red and irritated?</b>	This condition is due to the Contact Points irritating the skin. Discontinue use of the Collar Receiver for a few days. If the condition persists beyond 48 hours, see your veterinarian. Once the skin returns to normal, resume use, and monitor the skin condition closely.
<b>Can I attach a lead/leash to the Collar Receiver?</b>	DON'T attach a lead/leash to the Collar Receiver. You may put a separate non-metallic collar on your dog's neck and attach a lead/leash. Be sure the extra collar doesn't interfere with the Contact Points.
<b>Can my children get hurt by the Boundary Wire?</b>	NO. The mild correction is produced by the Contact Points on the Collar Receiver, not the Boundary Wire. With proper use, the system is safe for all.
<b>I have a small dog and a large dog; will this work for me?</b>	YES. Since the system provides just the right amount of adjustable static stimulation within each dog's collar, it's safe and effective for all the dogs in your family over 8 pounds. The kit includes 1 collar; additional collars are sold separately (SDF-CR Add-A-Dog® Collar).
<b>Is this complicated?</b>	No. This Operating and Training Guide will walk you through every step.
<b>Can I use the system with an existing fence?</b>	YES. The system can be used with an existing fence if you have a problem with a dog digging or jumping over a traditional fence.
<b>How often will my dog receive a correction?</b>	When trained properly, most dogs will only receive a few corrections during normal Containment usage.
<b>Can I twist one wire to make a gate or safe area that my dog can cross?</b>	No. The wires need to meet in order to cancel out the signal Refer to STEP 04.
<b>Does the Range Adjuster Knob tell me how wide my Boundary Width will be?</b>	No, every yard is different. You'll have to use the Collar Receiver to find the Boundary Width. Refer to STEP 07.
<b>Can I use the system with more than one dog?</b>	Yes. Any number of dogs can be added to the system with the purchase of additional Collar Receivers (SDF-CR).
<b>Why is my Fence Transmitter beeping?</b>	You have a break in your Boundary Wire. Refer to "To Locate a Break In The Boundary Wire" section on page 21 for more information.
<b>Why is it suggested to perform a Short Loop Test?</b>	A Short Loop Test is a simple test to determine if each component (Fence Transmitter, Collar Receiver, and Boundary Wire) is functioning properly. Follow the steps outlined on page 21.

# TROUBLESHOOTING

The answers to these questions should help you solve any problem you have with this system. If they don't, please contact the Customer Care Center, visit our website at [www.sportdog.com](http://www.sportdog.com), or view [www.youtube.com/sportdogbrand](http://www.youtube.com/sportdogbrand) for support videos.

<b>The Collar Receiver won't turn on.</b>	<ul style="list-style-type: none"> <li>• Make sure the Collar Receiver has been charged. The Collar Receiver will charge in 2 hours.</li> </ul>
<b>Collar Receiver isn't beeping or correcting.</b>	<ul style="list-style-type: none"> <li>• Check that both lights are lit on the Fence Transmitter. If not, perform the "Short Loop Test" on page 21.</li> </ul>
<b>The Collar Receiver has to be held on top of the Boundary Wire to activate.</b>	<ul style="list-style-type: none"> <li>• Recharge battery.</li> <li>• Adjust Range Adjuster Knob clockwise to increase the distance from the Boundary Wire that the Collar Receiver activates.</li> <li>• Adjust the Range Switch to the other setting.</li> <li>• If using a Double Loop, make sure Boundary Wires are separated at least 5 feet.</li> <li>• If the Collar Receiver still has to be held on top of the Boundary Wire, perform the "Short Loop Test" on page 21.</li> </ul>
<b>The Collar Receiver activates inside the house when in Containment mode.</b>	<ul style="list-style-type: none"> <li>• Turn the Range Adjuster Knob counterclockwise to decrease the distance from the Boundary Wire that the Collar Receiver activates.</li> <li>• Make sure the Boundary Wire isn't running too close to the house. The signal can transmit through the walls of your house.</li> <li>• Make sure Boundary Wires are twisted from Boundary to the Fence Transmitter.</li> </ul>
<b>I have an inconsistent signal.</b>	<ul style="list-style-type: none"> <li>• Make sure the Fence Transmitter is at least 3 feet from large metal objects or appliances.</li> <li>• Make sure all Boundary Wire turns are gradual with a minimum 3 foot radius.</li> <li>• Make sure the Boundary Wire isn't running parallel to and within 10 feet of electrical wires, neighboring containment systems, telephone wires, television or antenna cables, or satellite dishes.</li> <li>• If a neighboring containment system may be causing an inconsistent signal, move the boundary wire further away from the neighboring containment system.</li> </ul>
<b>The Power and Loop Indicator Lights are off.</b>	<ul style="list-style-type: none"> <li>• Check that the Power Adapter is plugged into the Fence Transmitter.</li> <li>• Try plugging into another electrical outlet.</li> <li>• If the system is plugged into a GFCI or RCD outlet, check to see if the circuit has been tripped. Reset the GFCI or RCD circuit if required.</li> <li>• If the lights still doesn't come on, the Fence Transmitter and/or Power Adapter may need to be replaced. Contact the Customer Care Center.</li> </ul>
<b>The Power Light is on, the Loop Indicator Light is off, and the Fence Transmitter loop alarm is sounding.</b>	<ul style="list-style-type: none"> <li>• Make sure both ends of the Boundary Wire are plugged into Boundary Wire Terminals and that <math>\frac{3}{8}</math> - inch of the insulation is stripped so that the copper wire is exposed.</li> <li>• Perform the "Short Loop Test" on page 21 to determine if the Fence Transmitter needs to be replaced or if the Boundary Wire is broken.</li> <li>• If the Fence Transmitter is functioning properly, you have a break in your Boundary Wire. See the "To Locate a Break in the Boundary Wire" section on page 21.</li> </ul>

## ADDITIONAL INFORMATION

- The system should only be used with healthy dogs. Contact your veterinarian if you have concerns about the medical condition of your dog (medication, pregnant, heart conditions, etc.).
- The SportDOG® Brand In-Ground Fence™ system is for residential use only.
- The stimulation will get your dog's attention, but won't cause harm. It's designed to startle, not to punish.
- Test the Collar Receiver every 1-2 months. Battery life depends upon how often the Collar Receiver is used.
- Remove the Collar Receiver from your dog when indoors.
- Never leave the Collar Receiver on your dog for more than 12 consecutive hours.

# SHORT LOOP TEST

The Short Loop Test is a simple test to determine if each component (Fence Transmitter, Collar Receiver, and Boundary Wire) is functioning properly.

1. Disconnect the Boundary Wire and Ground Wire.
2. Cut approximately 10 feet of unused Boundary Wire and connect it to the Boundary Wire Terminals.
3. Attach the Test Light to the Collar Receiver.
4. Spread the Boundary Wire out into a circle. Set the Range Switch to LOW.
5. Set the Range Adjuster Knob to 10 and the static stimulation level to 2 or above.
6. If the Loop Indicator Light isn't lit, then your Fence Transmitter isn't functioning properly. Contact the Customer Care Center.
7. If the Loop Indicator Light is lit, disconnect one end of the Boundary Wire from the Boundary Wire Terminal.
8. If the loop alarm doesn't sound, the Fence Transmitter may need to be replaced. Contact the Customer Care Center.
9. If the loop alarm does sound, plug the Boundary Wire back into the Boundary Wire Terminal.
10. Hold the Collar Receiver next to the 10-foot length of Boundary Wire. The Collar Receiver should beep about 1 foot away from the Boundary Wire. The Test Light should then flash as you hold the Collar Receiver closer to the Boundary Wire.
11. If the Collar Receiver doesn't beep and the Test Light doesn't flash, replace the battery in the Collar Receiver. If it still doesn't beep and the Test Light doesn't flash, contact the Customer Care Center.
12. If the Collar Receiver beeps, there may be a complete or partial break in the Boundary Wire. See the "To Locate a Break in the Boundary Wire" section below.

## TO LOCATE A BREAK IN THE BOUNDARY WIRE

There is an audible alarm in the Fence Transmitter that will go off when the containment loop is broken. Also, there is a Loop Indicator Light on the Fence Transmitter that is ON if the containment loop is good and OFF when the containment loop is broken. Please follow these steps in determining where you have a break in your Boundary Wire:

1. Locate your original splice(s) and verify they have a good, solid connection.
2. Check your yard to determine any possible damage to the Boundary Wire (recent digging, aerating, rodent burrowing, or any other noticeable disturbance in your yard next to the Boundary Wire).

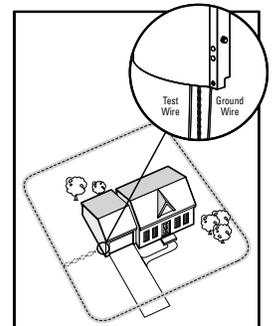
If you still can't find the break in the Boundary Wire, there are two options for locating it:

**Option 1:** Contact the Customer Care Center to purchase a Wire Break Locator (RFA-450) that will locate the break in the Boundary Wire.

**Option 2:** Follow the procedure below:

**CAUTION** To prevent an unintended correction, always remove your dog's Collar Receiver before performing any Fence Transmitter testing.

1. Unplug the Fence Transmitter.
2. Connect both ends of your twisted Boundary Wire to one Boundary Wire Terminal.
3. Measure and cut a Test Wire which is half the length of your total Boundary Wire footage.
4. Connect one end of the Test Wire to the other Boundary Wire Terminal.
5. Locate the halfway point of your boundary and cut the Boundary Wire.
6. Splice the other end of the Test Wire to either side of your Boundary Wire where you cut it in half.
7. Plug in the Fence Transmitter and check the Loop Indicator Light. If the Loop Indicator Light is on you can assume the break is in the other half of the Boundary Wire.
8. If the Loop Indicator Light didn't come on and you hear a continuous beep, you may assume there is a break in this portion of the Boundary Wire. However, there's a small chance of having multiple breaks in your system. Be sure to check both halves of your entire loop.
9. Replace the damaged Boundary Wire with new Boundary Wire.
10. Reconnect the Boundary Wire to the Fence Transmitter.
11. Check the Loop Indicator Light. If the Loop Indicator Light is on, test the system with the Collar Receiver.



# TERMS OF USE AND LIMITATION OF LIABILITY

## 1. TERMS OF USE

The use of this product is subject to your acceptance without modification of the terms, conditions, and notices contained with this product. Use of this product implies acceptance of all such terms, conditions, and notices. If you do not wish to accept these terms, conditions, and notices, please return the Product, unused, in its original packaging and at your own cost and risk to the relevant Customer Care location together with proof of purchase for a full refund.

## 2. PROPER USE

Proper Use includes, without limitation, reviewing the entire Operating Guide and any specific safety information statements. The specific temperament or size/weight of your dog may not be suitable for this product. If you are unsure whether this Product is appropriate for your dog, please consult your veterinarian or certified trainer prior to use. For products used with dogs where training is desired, Radio Systems Corporation recommends that these training products are not used if your dog is aggressive and accepts no liability for determining suitability in individual cases.

## 3. NO UNLAWFUL OR PROHIBITED USE

This product is designed for use with dogs only. This product is not intended to harm, injure, or provoke. Using this product in a way that is not intended could result in violation of Federal, State, or local laws.

## 4. LIMITATION OF LIABILITY

In no event shall Radio Systems Corporation or any of its associated companies be liable for (i) any direct, indirect, punitive, incidental, special or consequential damage and/or (ii) any loss or damages whatsoever arising out of or connected with the use or misuse of this product. The Purchaser assumes all risks and liability from the use of this product to the fullest extent permissible by law.

## 5. MODIFICATION OF TERMS AND CONDITIONS

Radio Systems Corporation reserves the right to change the terms, conditions, and notices governing this product from time to time. If such changes have been notified to you prior to your use of this product, they shall be binding on you as if incorporated herein.



## BATTERY DISPOSAL

This system operates on a Li-Ion battery pack. Only replace with battery received from calling the Customer Care Center at 1-800-732-0144.

- Batteries should never be removed from the battery compartment for charging.
- The rechargeable Lithium Ion (Li-Ion) batteries are not memory sensitive, do not require depletion before charging, and cannot be over charged.
- The batteries come partially charged from the factory, but will require a full charge before the first use.
- **When storing the unit for long periods, remember to regularly give batteries a full charge. This should be done once every 1 to 2 months.**
- You should expect hundreds of recharge cycles from your batteries. However, all rechargeable batteries lose capacity over time relative to the number of recharge cycles they experience. This is normal. If your operating time drops to half of the original life, contact the Customer Care Center to purchase a new battery.
- The batteries should last for a period of 3-5 years. When a battery needs replacement, you can order a new pack by calling our Customer Care Center at 1-800-732-0144. Please do not open the Collar Receiver until you have received the replacement.

### AT END OF PRODUCT LIFE, USE THESE BATTERY REMOVAL INSTRUCTIONS FOR FINAL DISPOSAL (DO NOT OPEN THE COLLAR RECEIVER UNTIL YOU HAVE RECEIVED THE REPLACEMENT):

- Using a 3/32 Hex Key for your Collar Receiver, remove the case screws.
- Remove the case back or cover.
- Remove the old battery pack.

### **⚠ WARNING**

- DON'T attempt to cut into or pry open the battery. Be sure to discard any used battery properly.
- When removing the old battery pack, care must be taken when gripping the connector firmly to avoid damaging the wires. Shorting the battery wires may cause fire or explosion.
- These instructions aren't valid for repair or battery replacement. Replacing the battery with a battery not specifically approved by Radio Systems Corporation may cause fire or explosion. Please call the Customer Care Center to avoid invalidating your warranty.



## IMPORTANT RECYCLING ADVICE

Please respect the Waste Electrical and Electronic Equipment regulations in your country.

This equipment must be recycled. At the end of the product life, do not place it in the normal municipal waste system. Please check the regulations in your area or return it to where it was purchased so that it can be placed in our recycling system. If these options are not possible, please contact the Customer Care Center for further information.

# COMPLIANCE

## FCC: USA

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a specific installation. If interference does occur to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult Customer Care, the dealer, or an experienced radio/TV technician for help.

**CAUTION:** Modification or changes to this equipment not expressly approved by Radio Systems Corporation may void the user's authority to operate the equipment.

## IC: CANADA

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## ACMA: AUSTRALIA

This device complies with the applicable EMC requirements specified by the ACMA (Australian Communications and Media Authority).

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# CUSTOMER CARE INTERNATIONAL

Canada - Tel: 800-457-3911

Monday - Friday 08:00 - 20:00 / Saturday 09:00 AM - 17:00 PM

Australia - Tel: 1800 786 608

Monday - Friday 8:30 - 17:00 (AEST)

New Zealand - Tel: 0800 543 054

Monday - Friday 10:30 AM - 19:00 (NZST)

# TWO YEAR NON-TRANSFERRABLE LIMITED WARRANTY

This Product has the benefit of a limited manufacturer's warranty. Complete details of the warranty applicable to this Product and its terms can be found at [www.sportdog.com](http://www.sportdog.com) and/or are available by contacting your local Customer Care Centre.

Canada – Radio Systems Corporation, 10427 PetSafe Way, Knoxville, TN 37932 USA

Australia/New Zealand – In compliance with the Australian Consumer Law, Warranties Against Defects, effective January 1, 2012, warranty details of this Product are as follows: Radio Systems Australia Pty Ltd. (herein after referred to as "Radio Systems") warrants to the original retail purchaser, and not any other purchaser or subsequent owner, that its Product, when subject to normal and proper residential use, will be free from defects in material or workmanship for a period of two (2) years from the purchase date. An "original retail consumer purchaser" is a person or entity who originally purchases the Product, or a gift recipient of a new Product that is unopened and in its original packaging. When serviced by Radio Systems Customer Service, Radio Systems covers labour and parts for the first two years of ownership; after the first two years, a service or upgrade charge will apply relative to replacement of the Product with new or refurbished items at Radio Systems' sole discretion.

The limited warranty is non-transferrable and shall automatically terminate if the original retail consumer purchaser resells the Radio Systems Product or transfers the property on which the Radio Systems Product is installed. This Limited Warranty excludes accidental damage due to dog chews; lightning damage; or neglect, alteration, and misuse. Consumers who purchase products outside of Australia, New Zealand, or from an unauthorized dealer will need to return the Product to the original place of purchase for any warranty issues.

Please note that Radio Systems does not provide refunds, replacements, or upgrades for change of mind, or for any other reason outside of these Warranty terms.

Claims Procedure: Any claim made under this Warranty should be made directly to Radio Systems Australia Pty Ltd. Customer Care Centre at:

Radio Systems Australia Pty Ltd.  
PO Box 3442, Australia Fair  
QLD 4215 Australia

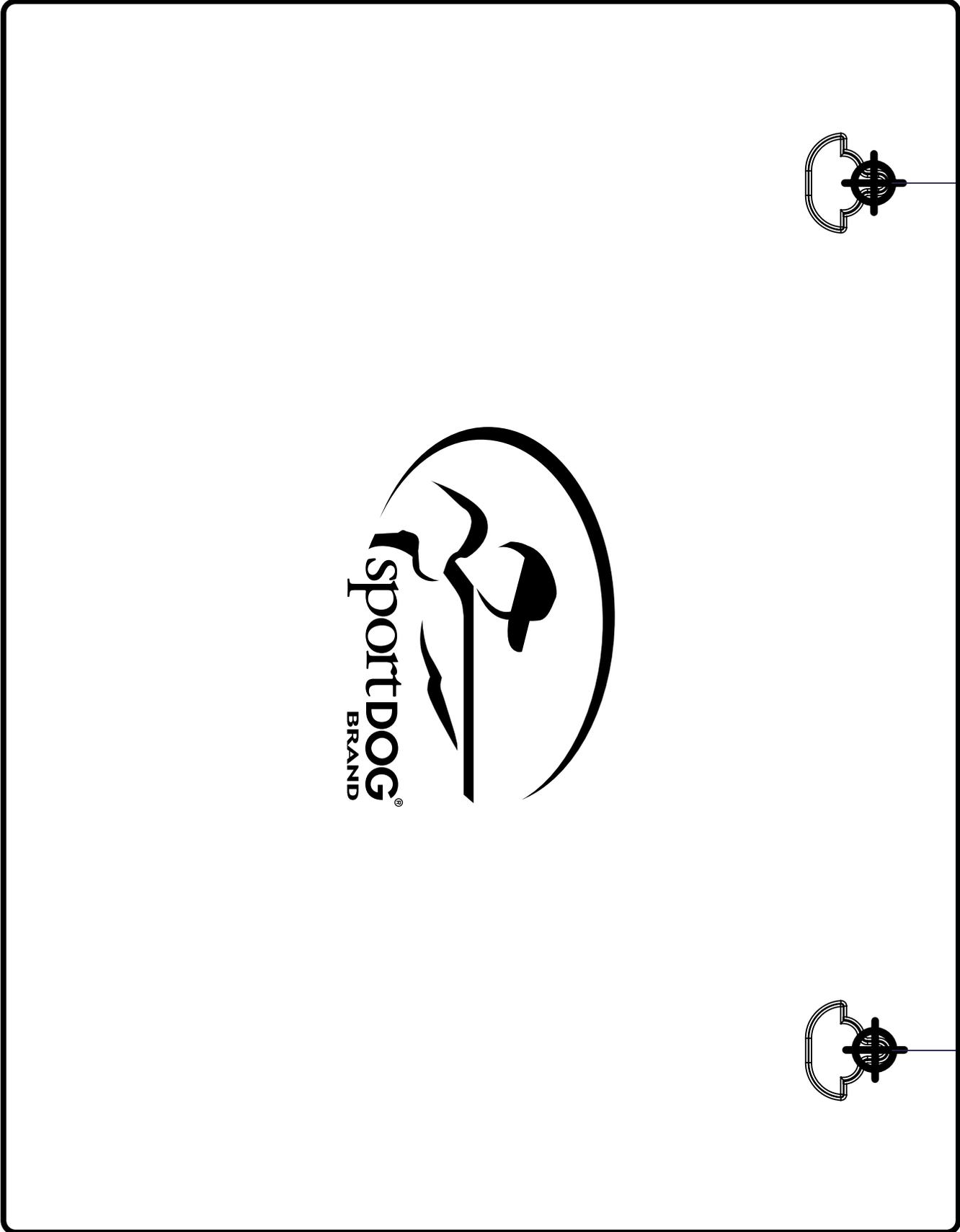
Australia Residents: 1800 786 608  
New Zealand Residents: 0800 543 054  
Email: [aus-info@petsafe.net](mailto:aus-info@petsafe.net)

To file a claim, a proof of purchase must be provided. Without a proof of purchase, Radio Systems will not repair or replace faulty components. Radio Systems requests the Consumer to contact the Radio Systems Customer Care Centre to obtain a Warranty Return number, prior to sending the Product. Failure to do so may delay in the repair or replacement of the Product.

If the Product is deemed to be faulty within 30 days from date of original purchase, Radio Systems will organise for a replacement to be sent in advance of returning the faulty Product. A Post Bag will be included with the replacement Product for the return of the faulty Product. The Product must be returned within 7 days of receiving the replacement. If the Product is deemed to be faulty after 30 days from the date of original purchase, the consumer will be required to return the Product to Radio Systems at the consumer's own expense. Radio Systems will test and replace the faulty unit or its components and return to the consumer free of charge, provided the Product is within its said warranty period. This warranty is in addition to other rights and remedies available to you under the law. Radio Systems goods come with guarantees that cannot be excluded under the Australia Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Should you have any queries or require any further information, please contact our Customer Care Centre on 1800 786 608 (Australia) or 0800 543 054 (New Zealand).

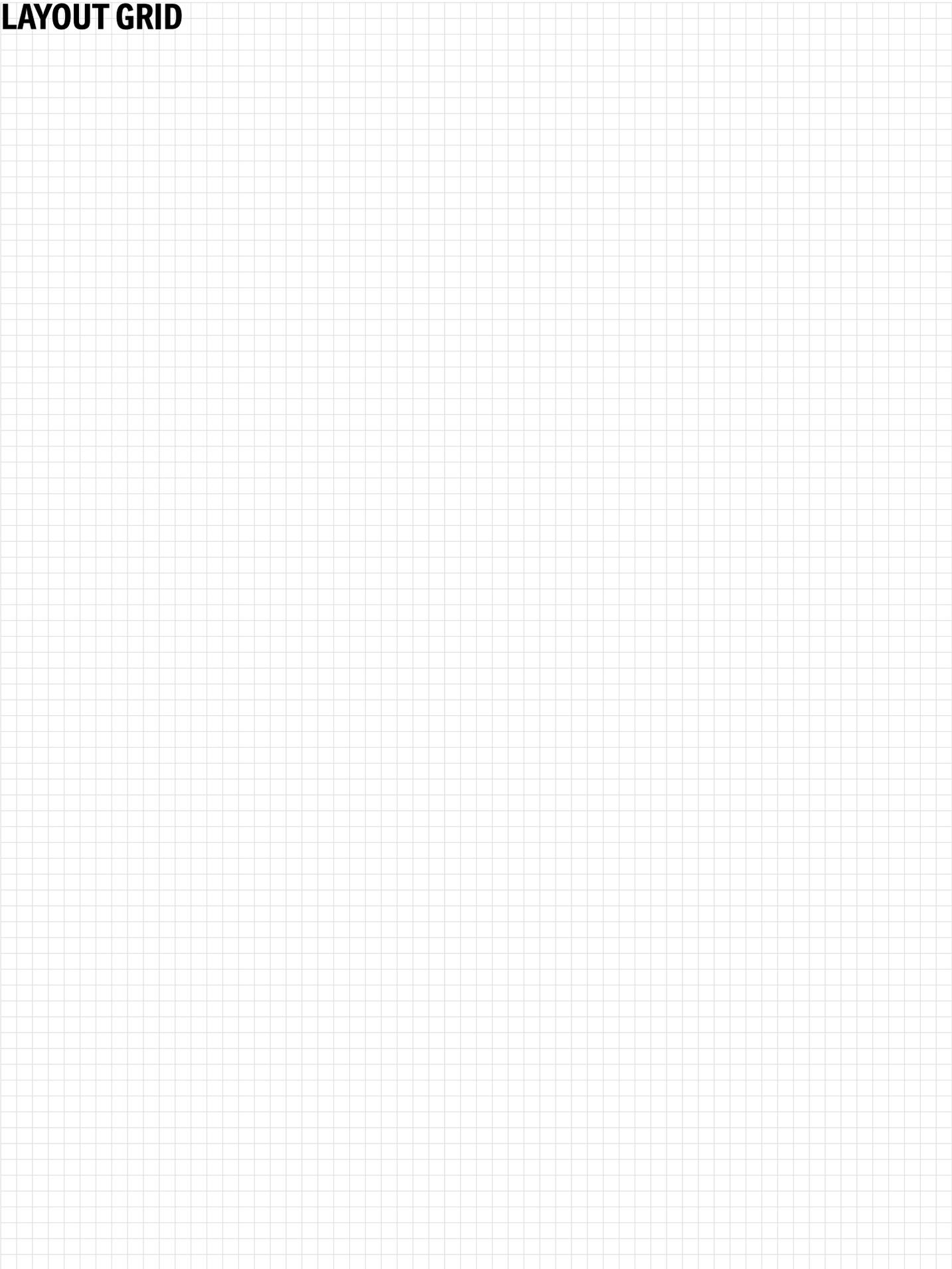
# MOUNTING TEMPLATE



# LAYOUT GRID



# LAYOUT GRID





**GEAR THE WAY  
YOU'D DESIGN IT™**