

# Invisible Fence<sup>®</sup>

BRAND

## IFA 12 Pet Keeper<sup>®</sup> Indoor Transmitter Operation, Installation & Training Manual

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Your dog safe @home<sup>®</sup>

*Made in the USA*

## Thank you for choosing an Invisible Fence® Pet Containment System

We believe that you now own the highest quality electronic pet containment system made anywhere. We support this claim by backing Invisible Fence Brand products with a One-Year, Money-Back Performance Guarantee\*, and Warranties which include lightning and surge damage. Refer to your warranty card or the back of your sales contract for complete details. All of this is backed up by our inter-

national network of local Invisible Fence professionals who offer you professional installation, Safe Dog® pet training, and prompt service.

You are the most important judge of our products and services. When you tell us that we have met or exceeded your expectations for Invisible Fence products, then we are achieving our goal: to continuously keep your pet safe at home.™

\* Good only on professionally installed systems.

## Important Safeguards

**1. Read and Retain Manuals:** Read all of the operating and training instructions before installing and/or using your new Invisible Fence® Brand pet containment system.

**2. Training:** Train your pet according to the instructions in Invisible Fence training manuals. Complete all of the steps before allowing your pet to run free.

**3. Obey all Cautions and Warnings:** Adhere to all of the cautions and warnings contained in this manual and all other manuals pertaining to your Invisible Fence system, and on all Invisible Fence components.

**4. Service and Repair:** Do not attempt to service an IFA 12 transmitter yourself. Refer all service to an authorized Invisible Fence professional only.

**5. For Animal Use Only:** All Invisible Fence pet containment systems are designed for animal use only. Never attempt to use this product for any purpose not specifically described in this manual.

**IMPORTANT:** If, for any reason, your Invisible Fence system does not operate as described in this manual, or if you encounter any difficulty training your pet, call your Invisible Fence professional immediately.



**Warning:** *The following precautions should always be taken.*

**1. Never** attempt to install an Invisible Fence pet containment system unless you have first consulted your Invisible Fence professional and have Invisible Fence installation instructions.

**2. Never** install an IFA 12 outdoors or where it could be exposed to the outdoor elements, doing so will void the manufacturer's warranties.

**3. Check the transmitter** periodically to make sure that it is operating properly and is producing a signal field.

**4. Caution:** Always take the Computer Collar® off your pet before making any adjustment to any Invisible Fence equipment.

**5. If you have any questions** about any aspect of your Invisible Fence system, please call your Invisible Fence professional immediately.



**Warning:** *If you have any reason to believe that your pet may pose a danger to others, or that it may harm itself*

*if it is not kept from crossing the Invisible Boundary® signal field, you should not rely solely on this product to contain your pet.*

**Invisible Fencepet containment will not work unless:**

**1.** The 12vAC transformer is plugged into the transmitter and is plugged into a 110vAC outlet.

**2.** The transmitter is turned on and is producing a signal field.

**3.** The Computer Collar is correctly fitted and worn by your pet.

The Computer Collar is adjusted so that the receiver posts are touching your pet's skin.

**4.** The Power Cap® battery in the receiver is good and is correctly installed.

**5.** You train your pet as prescribed in the Invisible Fence training protocol.

**Do Not** become overly confident that your pet has become conditioned to the Invisible Fence system sooner than expected. Complete all of the training steps before allowing your pet to run free.

**If you have any questions** about any aspect of your Invisible Fence system, please call your Invisible Fence professional immediately.

**• At Least Once a Month, and After a Thunder Storm, Check the Width of Your Invisible Fence System's Signal Field**

*Always keep a note of the width of your system's signal field.*

*Always check the signal field from the same place.*

*Take the Computer Collar off your pet. Follow the instructions for checking the width of the signal field on page 5.*

*If the receiver does not sound a warning where the edge of the signal is supposed to be, or if it only sounds a warning when it is closer to the transmitter than the setting of the signal field, immediately call your Invisible Fence professional for service.*

*Use other means to contain your pet until all necessary service has been completed.*

# IFA 12 Installation

## Features and Functions

The IFA 12 is designed for indoor use only.

The IFA 12 transmitter is microprocessor controlled and designed to work with an Invisible Fence® Computer Collar® to contain your pet within a certain area, or to block your pet's access to an area.

Unlike other Invisible Fence indoor and outdoor systems, an external signal field wire is not connected to the transmitter. The Invisible Boundary® wire is contained within the transmitter's case.

The IFA 12 has a green LED that stays on without blinking to indicate that the transmitter has power and is turned on.

The transmitter's case is factory sealed and cannot be opened. Its power jack and signal field setting controls are located in a groove on the outside of the case.



Left to right: 12vAC power jack, signal field adjustment knob, 7KHz-10KHz channel switch.

The IFA 12 has a switch to select the transmitter's operating frequency, 7K is the the LEFT position, 10K is the RIGHT position.

There is one signal field adjustment knob that is used to set the width of the signal field.

## The Signal Field

All Invisible Fence Brand transmitters produce a coded, low power radio signal. This signal is what activates your pet's Computer Collar receiver.

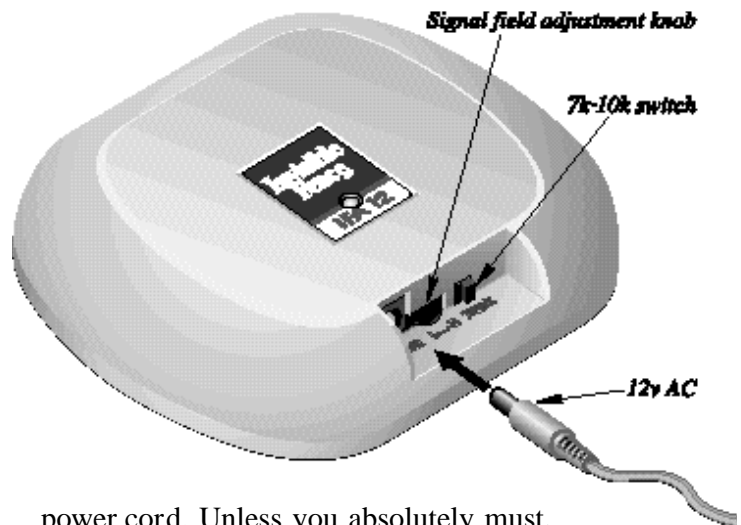
The IFA 12 signal field is omnidirectional. It's a sphere surrounding the transmitter, that is centered on the transmitter, and is broadcasted out 360° in all directions from the unit.

## Planning the Installation



**Warning: IFA 12 transmitters are designed for indoor use exclusively. If an IFA 12 is used outdoors, it will be cause to void the manufacturer's warranty in full.**

You must locate an IFA 12 within 6 feet of a 110v outlet because of the length off the transformer's



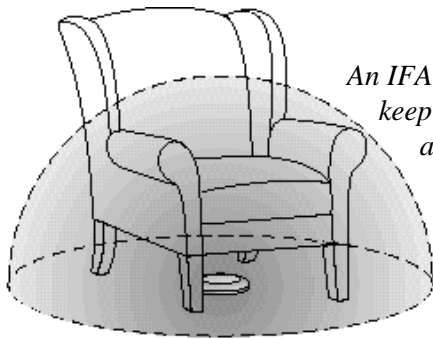
power cord. Unless you absolutely must, never use an outlet that can be turned ON and OFF by a wall switch. If you have to use an outlet that is not dedicated ON, there is a risk that the IFA 12 may be inadvertently turned OFF without you realizing it.

Never permanently fasten an IFA 12 in place until after you have set and checked the width of the signal field and are sure of the area that the signal field will cover. It may be necessary to move the transmitter to have the signal field cover the area you want it to.

The signal generated by an IFA 12 can be picked up by other conductors like television cable, copper plumbing lines, metal window and door frames, and metal furniture and furniture frames. If your objective is to keep a pet away from a table, couch, or bed by putting an IFA 12 under the piece of furniture and the signal bleeds to that piece of furniture, it may not be a problem. However, if you use an IFA 12 to protect an area and the signal bleeds to a metal object that is nearby, but not supposed to be within the protected area, you may have to change the location of the transmitter..

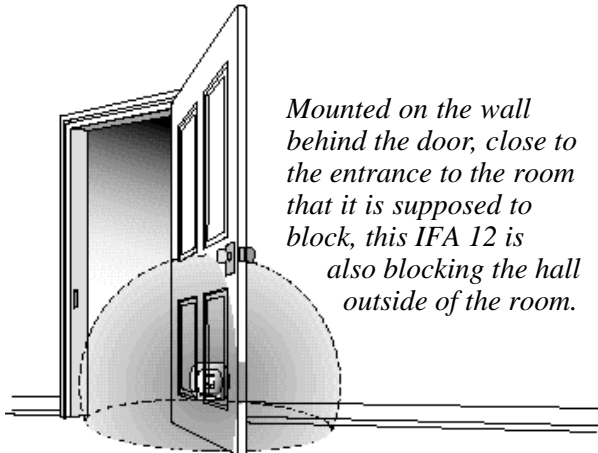
To prevent the signal from bleeding, the transmitter should be located a few feet away from conductors like TV cable, copper pipes, and metal ducts. When an object like metal furniture, or furniture with an internal metal frame, or a metal door frame is nearby, an IFA 12 should be located so that the edge of the signal field will be a few feet away from it. When you are setting and checking the width of the IFA 12 signal field, use a Computer Collar and check all of the possible conductors within 10 feet(3.1m) of the transmitter to see if any of them are picking up the signal.

An IFA 12 can be mounted on a wall or laid flat on the floor and placed beneath an object, such as a sofa or chair.

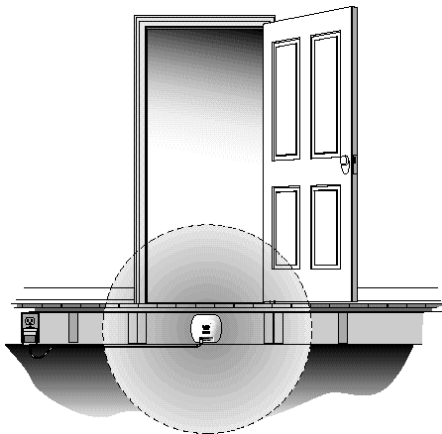


*An IFA 12 used to keep a pet off a chair.*

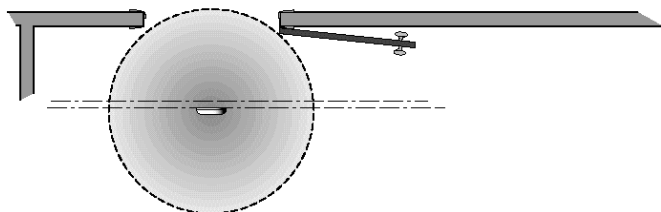
Whenever you have a choice, do not locate an IFA 12 transmitter out in the open in a living area. Look around an area that you want to protect and consider the various places where you can locate the transmitter to have the signal field protect the area that you want it to. Can it be hidden under a piece of furniture, behind a bookcase or a sideboard, or in a built-in cabinet? Can it be located in the basement under the



*Mounted on the wall behind the door, close to the entrance to the room that it is supposed to block, this IFA 12 is also blocking the hall outside of the room.*



*Located in the basement under the room, this IFA 12 is only blocking the entrance to the room.*



area that it will protect?

To block a stairwell see if you will be able to fasten the IFA 12 under the stairs in the basement, or on the bottom of a step or the back of a riser. If there is an electric outlet in a closet that is under a staircase, a wall inside the closet may be a good place to put an IFA 12 to block the stairs. Locate the transmitter so that it blocks the end of the staircase that would otherwise be the entrance to the stairs. Block the access so that your pet will stop on the floor in front of the stairs and won't have to turn around on the stairs. For example, if your pet is to be kept from going upstairs block the bottom of the staircase. To keep your pet from going downstairs block the top of the staircase.



**Note:** *Never install an IFA 12 on the ceiling in a room or above a stairwell in the living area of your home.*

### **IFA 12, 12vAC Transformer, Model 100-0020-01**

Turn on the IFA 12 by plugging the 12vAC transformer's power line into the power jack on the transmitter marked PWR, then plug the transformer into a 110vAC outlet. The green LED on the face of the transmitter will light indicating that the power is connected and the transmitter is on.

*Any customer with another electric power source should ask their Invisible Fence® professional for an appropriate adapter.*

Only use the model 100-0020-01, 12vAC transformer provided with the IFA 12. This transformer will supply the output necessary to power the IFA 12. Specifications:

INPUT: 120vAC 60 Hz 15W

OUTPUT: 12vAC 750mA

UL/CSA CLASS 2 Transformer

UL listed/CSA certified



**Warning:** *The model 100-0020-01 is the only transformer authorized by Invisible Technologies, Inc. to be used to supply the power to an IFA 12. The use of any other transformer may result in a malfunction of the IFA 12 transmitter.*

Emergency battery backup power is not available for the IFA 12.

### Setting and Checking the Width of the Signal Field



**Caution:** *Never install any Invisible Fence® Brand equipment or make any adjustment to the signal field while your pet is wearing its Computer Collar®.*

**If your pet is wearing the Computer Collar, be sure to remove it before you do any work.**

Before you set the width of the signal field, check to make sure that the 7K-10K channel switch on the IFA 12 is set to the same operating frequency as the Computer Collar receiver that your pet will be wearing, and the same operating frequency as any other transmitter(s) that may be part of your indoor system.

Because the signal field from an IFA 12 is omnidirectional, the width of the signal is a radius. It is measured from the point where a Computer Collar receiver sounds a warning to the center of the transmitter.

The width of the signal field can be set from a minimum of 1 foot(.3m) to a maximum of 7 feet (2.1m). The IFA 12 signal field is typically set 2 to 3 feet(.6 to .9m) wide for most applications.

Turning the signal field adjustment knob clockwise decreases the width of the signal field, and turning it counter clockwise makes the signal field wider.

These adjustments do not change the correction level of the receiver, they only change the width of the signal field from the IFA 12 transmitter

To keep a pet out of a specific room, for example:

1. Use a 110vAC outlet that is close to the doorway of the room that your pet is to be excluded from. Plug the transformer into the IFA 12 power jack, then plug the transformer into the 110v outlet.

2. Set the operating frequency so it is the same as your pet's Computer Collar receiver, 7k or 10k.

3. Turn the signal field adjustment knob fully clockwise to the lowest setting. Then turn it up about "ten minutes", counter clockwise.

4. Put the IFA 12 near the hinged side of the door frame and check the width of the signal field with the receiver. If the receiver activates across the entire doorway this setting is sufficient to block the entrance.

If this signal field setting is not wide enough to cover the area that you want it to, turn the signal field

adjustment knob counter clockwise another "ten minutes" and check the width of the signal field again. Repeat this process, making gradual changes, until the signal field is wide enough to cover the area.

5. Next, use the receiver to check that this placement does not block your pet's access to other areas, such as a hallway or exterior doorway where you want your pet to be able to pass.

6. If the proper area is being blocked, the IFA 12 may be permanently fastened where it is.

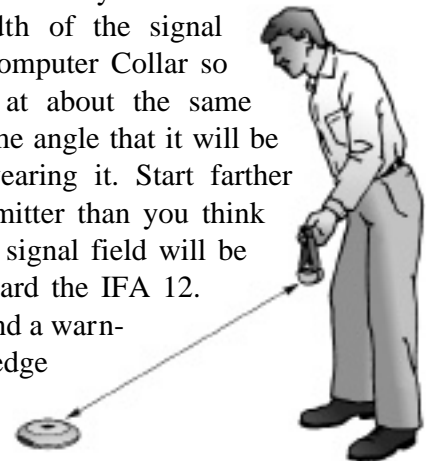
7. If not, reposition the IFA 12 farther away from the *pass* area while maintaining signal coverage of the doorway you want to block. This may require any of the following:

- A. Moving the IFA 12 to the latch side of the door frame if it is farther away from the *pass* area.

- B. Moving the IFA 12 away from the door and resetting the signal field. A larger field may provide better coverage of the doorway.

Check the width of the signal field by holding a Computer Collar so that the receiver is at about the same height and on the same angle that it will be when your pet is wearing it. Start farther away from the transmitter than you think that the width of the signal field will be and walk slowly toward the IFA 12.

The receiver will sound a warning when it is at the edge of the signal field.



**Note:** *A Computer Collar receiver has a fail safe mechanism.*

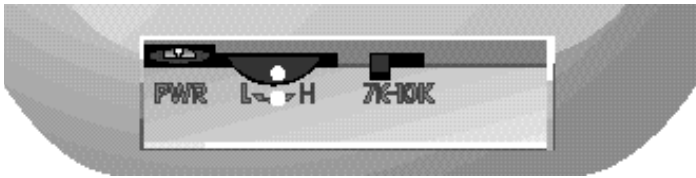
***The receiver will go through three complete cycles of 10 seconds on and 10 seconds off and then shut down. It will not reactivate until it is taken completely out of the the signal field, and is then brought back into it***

Remember, the distance from the point where the Computer Collar receiver sounds a warning to the center of the transmitter is the width of the signal field.

Because the IFA 12 signal field is a sphere it is very important to check the width of the signal field at different locations all around the transmitter. You want to be sure that the signal field is wide enough to cover the area that you want it to, but just as importantly, be sure that it is not so wide that it is also cover-

ing an area that is not supposed to be covered.

When the signal field is covering the area that you want it to, permanently fasten the IFA 12 in place.



Mark the signal field setting on the IFA 12.



**Note:** When the signal field is set where you want it, you can use a tiny dot of nail polish or paint on the signal field adjustment knob and the case of the IFA 12 to mark the setting for future reference.

### Mounting the IFA 12 Transmitter

To permanently fasten an IFA 12 in place, drill two pilot holes aligned vertically and centered 2 1/2 inches (6.35cm) apart. Turn a 3/4 inch, #10 (4.8x19mm) pan-head sheet metal screw into each pilot hole until about 1/16 of an inch (1.6mm) of space remains between the surface the transmitter will be located on and the underside of the screw's head. Center the round end of the keyholes on the bottom of the transmitter's case over the screws so that the bottom of the transmitter is flush against the mounting surface. Slide the transmitter down to lock the heads of the screws in the keyholes.

## Computer Collar® Receivers



**Warning:** The A12 Computer Collar is designed for indoor use exclusively, using an A12 outdoors will void the manufacturer's warranty in full.



**Note:** An A12 Computer Collar receiver will not work with any outdoor Invisible Fence transmitter, or any indoor transmitter except an IFA 12.



**Note:** The A12 Computer Collar receiver is factory set to 7K, it will not work with an IFA 12 when the transmitter's operating frequency is set to 10K.



**Note:** If you want to use both an indoor IFA 12 system and an outdoor Invisible Fence® system, you can use the same R series Computer Collar for both systems. The IFA 12 transmitter(s) must be set to the same operating frequency that the outdoor system's transmitter is set to, either 7K or 10K.

### CAUTION AND CARE

#### An Invisible Fence Computer Collar will not work unless:

1. You train your pet as prescribed in the Invisible Fence Safe Dog® training protocol.
2. The Computer Collar receiver is worn snugly on your pet's neck under the lower jaw.
3. The Computer Collar is adjusted so that the receiver's posts are touching your pet's skin.
4. The Power Cap® battery in the Computer Collar receiver is good and is correctly installed, see "Changing the Computer Collar Receiver's Power Cap Battery", on page 7.
5. The IFA 12 is on and producing a signal field.

#### The following precautions should also be taken:

1. Always take the Computer Collar off your pet before you make any adjustment to your Invisible Fence system.
2. Gradually allow your pet to become accustomed to its new Computer Collar. Take off the collar every night during the first month and periodically thereafter. This will ensure proper fit and avoid the possibility of any irritation that the posts may cause to your pet's skin.
3. Check the Computer Collar near your television set(s). Although the receiver has a decoding circuit, some televisions may produce a coded signal similar to the Invisible Fence signal and may cause the receiver to activate when it is close to a television.
4. **DO NOT** secure the correction posts in the receiver with any kind of glue or adhesive. **ALWAYS** use the post tightening tool to tighten the receiver posts.



5. Check the transmitter periodically to make sure that it is operating properly and producing a signal field.

6. NEVER, under any circumstances, use this product for any purpose other than that stated in this manual. Invisible Fence systems are designed for animal use only.

## Features and Functions

Computer Collar receivers are water resistant, microprocessor controlled units powered by a special 3v lithium Power Cap® battery.

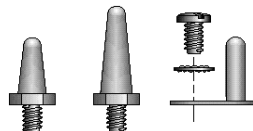
An R series Computer Collar can be used with all ICT700 series, Invisible Gate®, and IFA 12 transmitters.

Computer Collar receivers are available with Short, Long, or Short-Space receiver posts to fit different size dogs and work well with any type of coat

Computer Collar receivers can be fitted with shunts to reduce the correction level of the receiver for small pets who are shy or timid.



Short, Long, and Short-Space Receiver Posts



## R21 v3 Series Receivers

The R21 v3 Computer Collar receivers have an added feature. The v3 will beep once when a Power Cap® battery is installed. The beep indicates that the microprocessor in the receiver is working and that the Power Cap battery has enough voltage to power the



receiver. The three small circular indentations, equidistantly spaced around the outer edge of the base that supports the center battery contact in the receiver, indicate that the receiver is an R21 v3 series Computer Collar.

## Fitting the Computer Collar

To work properly, the correction posts on the Computer Collar receiver must touch your pet's skin. Posts are available in three different sizes to ensure a proper fit for every pet: short, 1/2 inch(12.7mm); long, 3/4 inch(19mm); and short-spaced posts.

The receiver should be positioned underneath your pet's neck with the posts pointing up and the top of the receiver pointing forward, toward your pet's nose. Adjust the collar so it's snug enough to slide one finger between a post and your pet's neck. Periodic adjustment of the Computer Collar may be necessary as your pet's coat, weight and age change.

*Make sure that the Computer Collar is snug enough for the posts to touch your pet's skin. Be sure that you can still work a fingertip between the skin and the post.*

*Computer Collar Slip or Woodhouse Collar, is only used during training*



## Changing the Computer Collar Receiver's Power Cap Battery

The Power Cap battery is a replaceable 3v lithium battery with a unique plastic screw cap. It is very important for proper operation that the receiver always has a good Power Cap®





battery installed. On average, the battery should be changed every 3 to 4 months. But battery life can be reduced by several variables, including lower temperatures, the number of times a pet challenges the system boundary, and the fit of the collar on the pet's neck. In cold weather, for example, it may be necessary to replace the battery more often. Your Invisible Fence® professional should recommend a schedule for regularly changing a receiver's Power Cap® battery. We recommend that you ask your Dealer about a battery replacement plan.



**Note:** *Invisible Technologies, Inc. recommends that a customer subscribe to a battery replacement plan where fresh Power Cap batteries are mailed directly to them on a regular schedule.*

*Your Invisible Fence professional can determine the best schedule for you.*



**Warning:** *The use of any battery other than a battery authorized by Invisible Technologies, Inc. can cause a receiver to operate erratically. Failure of the receiver due to the use of an unauthorized battery, may result in denial of a warranty claim.*

Invisible Fence receivers are water resistant, *they are not waterproof.* In particularly humid climates or when a dog has access to creeks, pools, etc., water may get trapped in the battery compartment. A small rubber O-ring around the battery cap will minimize water invasion, but if you think that the battery compartment is getting wet, take the battery out of the Computer Collar receiver when your dog is not wearing the collar. This will allow the battery and the compartment to dry.

To remove an old Power Cap battery from a Computer Collar receiver, use a small, thin coin in the



slot on top of the battery and turn it counter clockwise. The battery will rotate up and out of the battery chamber. Never use a screwdriver to remove or tighten the battery because you may strip the plastic head on top of the battery.



**Note:** *Remember, before you put in a new Power Cap battery, you must wait for a full five minutes so that the Computer Collar receiver's microprocessor has enough time to recycle after the old battery has been removed.*

To install a new battery, line up the two lugs on the bottom of the Power Cap with the two grooves in the sides of the battery chamber. Gently put the Power Cap into the chamber while turning it clockwise with your fingers. Finally, use a small, thin coin in the slot on the top of the battery to turn the battery clockwise until the slot on the top of the battery is lined up with the two small raised tabs on the bottom of the receiver.



When the new Power Cap is in, wait 10 seconds before taking the receiver into the signal field to give the receiver time to recycle.

Failure to follow these directions exactly, may result in the Computer Collar receiver not activating properly. To maintain optimum performance, we recommend that you periodically test the battery.



**Warning:** *The Power Cap battery case is made of soft, protective material. The use of unnecessary force may damage the case and render the battery inoperable.*



**Warning:** *NEVER open a Power Cap, dispose of it in fire, recharge it, heat it above 212°F(100°C), or expose its contents to water. Doing so can cause leakage or explosion and may lead to personal injury.*

### Power Cap Battery Tester

We strongly recommend that each customer obtain a Power Cap battery tester. At least once a month, check the receiver battery with the Power Cap battery tester to be sure that your pet will stay out of areas that it is supposed to, and remain safely within your Invisible Fence system.

The Power Cap battery tester measures the internal resistance of a Power Cap battery and shows how much life is left in the battery.

To test a receiver battery with the Power Cap battery tester, remove the battery from the receiver and put it into the Power Cap® battery tester the same way that you would put it into a receiver. If the battery is good, the green and red LEDs on the tester will both light. If neither LED on the tester lights, or just the red LED lights dimly, the battery needs to be replaced.



### Training Your Pet

The training protocol will train your appropriate-age puppy or dog to avoid a specific area or areas inside your home.

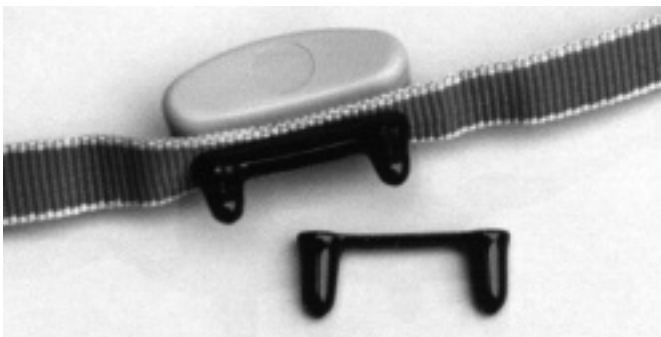
Puppies mature at different ages, but in general, wait until a puppy is between 4 and 6 months old before allowing the puppy to receive a correction from a Computer Collar.



**Note:** Plan to train your pet for at least 5 days.

#### Training Procedure:

1. Before you begin training, put the Post Cover over both posts of the Computer Collar receiver. The receiver will sound a warning, but not give your pet a correction during this part of the training.



2. Turn the IFA 12 on and put the Computer Collar on your pet.

Attach a lead to the collar your dog normally wears, and guide your pet toward the protected area. When the receiver sounds the warning tone, quickly jerk the lead and then release it.

When you jerk your pet's lead it should be just enough to get your pet's attention, based on its personality and breed.

Move immediately to a *safe area* while calling your pet. Kneel in the *safe area* and praise your pet for coming with you.

The quick jerk on the lead is ample negative reinforcement during this part of the training. No verbal correction is necessary or desirable. On the other hand, praise should be generously given when your pet returns to the safe area with you.



**Caution:** Never call or pull a pet into the signal field.

3. Repeat step 2, 3 or more times during each training session. Each day, schedule one or more training sessions of about 15 minutes each.

4. After 2 days, or when your pet is generally avoiding the protected area, remove the Post Cover from the Computer Collar receiver posts. With the Post Cover removed, repeat steps 2 and 3. Ideally, your dog should not receive more than 2 corrections during one session.



*This is the correct fit for a Computer Collar. The Woodhouse, or slip collar, is also on correctly.*



*Note: If your pet enters the signal field around the area being protected, it will now receive a warning followed by a correction.*

5. After 5 days of training your pet should be avoiding the protected area in your home, and be happy and content in the *safe areas* of the house.

If your pet is not avoiding the protected area, continue the training for another day or two.

*If, for any reason, your Invisible Fence® system does not operate as described in this manual, or if you encounter any difficulty training your pet, please call your Invisible Fence professional immediately.*

## Important Warnings



**1. WARNING:** *Occasionally an animal cannot be trained to avoid crossing the Invisible Boundary®. Sometimes even a properly trained animal may cross the boundary. Therefore, Invisible Technologies, Inc., Invisible Fence Distributors and Dealers cannot guarantee that the system will, in all cases, keep Customer's animal within the established boundary. Accordingly, if Customer has reason to believe that his or her animal may pose a danger to others or harm itself if it is not kept from crossing the boundaries, Customer should not rely solely upon the system to keep the animal from crossing the boundary.*



**2. WARNING:** *The control panel component of the system includes visual and audio signals to warn of a system malfunction, and is therefore intended to be installed in a place where such signals may be easily seen and heard. If the control panel is installed in an enclosed box or in a place not readily accessible to Customer, Customer will forfeit the benefits of the system's warning functions for which Invisible Technologies, Inc., Invisible Fence Distributors and Dealers assume no responsibility.*



**3. WARNING:** *Some persons claim that the shock from an electronic receiver collar can provoke an animal to become aggressive, and possibly to attack or bite. Customer is hereby warned to be alert for growling, snarling, biting, or other aggressive behavior by any animal using the system, especially during training. If any such behavior is observed, particularly if it appears to be associated in any way with the system, Customer should immediately stop using the system, unplug the transmitter, and contact your local Invisible Fence professional or Invisible Technologies, Inc.*

*Reported incidents have typically involved:*

*1) dogs with pre-existing aggressive tendencies; and*

*2) other provocation at the time of the incident.*

*Reports to Invisible Technologies, Inc. alleging such incidents are rare, less than one in 10,000, or 0.01% of the time.*



**FCCID# KZ3IFA12** “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 undesirable operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.”

**INDUSTRY CANADA CERTIFIED** Canada 2430 102 710

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