

## SD-3100

### Deluxe Contain N Train System

1. Set Up Hand-Held Transmitter: Turn collar to no-light (containment) mode  
Insert 12v alkaline battery in transmitter
  
2. ID Code:  
2048 Press and hold Program (on back of transmitter)  
Press and hold Button 1 (Dog 1)  
Release Program only → red / green → light out  
Release Button 1  
(ID Code for Dog 2 is automatically set)
  
- 1-5 Press and hold Program (on back of transmitter)  
Press and hold Button 1 (Dog 1)  
Release Program only → red / green → light out → solid yellow  
Release Button 1  

Press nothing	=	1 ID Code
Press 1	=	2
Press 2	=	3
Press 3	=	4
Press 4	=	5

\*\* Program Dog 1; Dog 2 sets automatically in same ID Code system \*\*

\*\* Each collar can use a different ID Code system (1-5 or 2048) \*\*

3. Tone Option: Press and hold Program  
Press and hold Button 2 = Tone  
3 = No Tone  
4 = Delay  
Release Program only → solid light → light out  
Release Button

Repeat Step 3 on Side 2 only if you want a different tone option for the second collar.

4. Set Up Collar: Insert 3v lithium battery positive side up.
  
5. Synchronize: Hold red paper dots together → green light → out → solid yellow on collar  
Separate the components 1 foot, press Button 1 → pulsating red light  
Release Button 1 → operating mode light

## Smart Dog SD-3100 Features

- Adapter:** 12V 200mA AC (Part # 0400036-1)  
Adapter is good if there is a light (however brief) on the wall transmitter
- Batteries:** Collar uses 3v lithium (Part # BAT-003)  
Battery life of 3v lithium = 300 hours in training mode  
250 hours in dual mode  
2 months in containment mode  
Hand-held transmitter uses 12v alkaline, (part # BAT-012) should last 2 months
- Collar:** Battery replaceable, water-resistant, weather-resistant  
Measures 2.125" wide x 1.75" tall x 1.375" thick and weighs 6.4 oz.  
Black nylon strap, but can be placed on any non-metal strap  
Battery screw cap and o-ring are included in the RK-13
- Collar Lights:**
- |                      |  |
|----------------------|--|
| Green blinking       | = Training Mode  |
| Red / green blinking | = Dual Mode  |
| No light             | = Containment Mode (default)                           |
| Yellow blinking      | = Programming Mode                                     |
| Red pulsating        | = Stimulation  |
| Green solid          | = Fence release tone                                   |
| Green pulsating      | = Warning tone in delay                                |
| Blinking red         | = Low battery indicator in dual or training modes only |
- Disable Containment:** In dual mode, press Program → 20 sec when containment is disabled  
Three tones sound at beginning and end of fence release period  
Solid green light on the collar receiver.
- Hand-Held Transmitter:** Can operate 2 collars and is water-resistant  
Measures 1.75" wide x 3.5" tall x .75" thick and weighs 2.3 oz.  
Preset stimulation (low, medium, high, max)  
Tone options (tone, no tone, delay)  
Up to 300-yard range in flat, open terrain  
Uses a 12v alkaline  
Low battery indicator is pulsating red light on transmitter  
Battery plug = 1700112-1
- Hand-Held Transmitter Lights:**
- |                 |                    |
|-----------------|--------------------|
| Green pulsating | = Activating       |
| Yellow solid    | = Programming Mode |
| Red pulsating   | = Low battery      |
- Field Size:** Jumper in lower left corner of transmitter adjusts for size of enclosure.  
Small = 1000 feet of wire or less      Large = more than 1000 feet of wire

Probes: Included in the RK-11

Range: Can power up to 25 acres in containment.  
Can go up to 300 yards in flat, open terrain in training.

Splices: Waterproof: Gel-filled capsule. RK-15 includes 6 splices.

Stimulation: Adjustable in wall transmitter with increase to High as dog approaches the wire.  
(Contain) Low = Upper-left jumper covering 2 pins on bottom  
High = Upper-left jumper covering 2 pins on top  
Medium = Upper-left jumper removed  
Maximum stimulation is 10 seconds, off 10 seconds; maximum of 3 on-off cycles

(Training) Preset for low, medium, high and max

Video-52 Dogstar Training  
Video-55 Training for Containment System

Wall Transmitter: Comes with 12 Volt < 200 mAmps AC (part # 0400036-1)

Wall Trans Light: Solid red light = continuity in boundary wire  
No light = break in the wire

Wire: Comes with 500 feet of 20-gauge wire for direct burial

## Smart Dog SD-3100 Containment Troubleshooting Tips

- Dog is Getting Out:      Check battery in collar  
Check operating mode of collar  
Do test loop  
Check collar fit and both probes making contact with skin  
Reinforce training efforts
- No Light on Wall Transmitter:      Do test loop → light with test loop → Do RF Choke  
No light → Check adapter → if adapter is bad, replace it.  
If adapter is good → Transmitter is bad → Contact Innotek
- Lightning Damage:      Wall transmitter is in pieces.  
Charred appearance inside transmitter; burnt smell
- Light on the wall transmitter with wires disconnected.  
Try unplugging adapter and plugging it back in.  
If light is still on with wires disconnected → Contact Innotek
- Suggest RF Choke to find damage to yard wire
- Metal Tags/Collar:      May change mode, creates a short across probes and dog receives no stimulation
- Range is Low:      Do test loop and monitor ranges at different field widths  
Check for other metal on the dog that can "short" across the probes.  
Mixing gauge of wire; did not use waterproof splices; nick in wire
- Range is High:      Check position of wire and move if within 6-10 feet of metal.  
Wet ground will increase signal field; soil is more conductive.  
Change field size jumper to small.  
Dial down field width.  
Keep transmitter away from electrical appliances.
- No Stimulation:      Check operating mode  
Do test loop → no stimulation on test loop → RMA
- Random Stimulation:      Change field size jumper to small.
- No Warning Tone:      Check position of jumper inside transmitter  
If removed, tone is given simultaneously with stimulation.  
Do test loop with transmitter set at minimum level → no tone on test loop  
→ Contact Innotek

## Smart Dog SD-3100 Training Troubleshooting Tips

Walk through programming and synchronization.

Neither collar works on Dog 1 side of transmitter: Transmitter problem

Collar 1 will not stimulate on Dog 1 or Dog 2 side but Collar 2 stimulates on both sides:  
Collar 1 problem

Both collars stimulate simultaneously: Reprogram transmitter with random ID Codes  
Synchronize Collar 1 with Collar 2 off  
Then synchronize Collar 2 with Collar 1 off

Range is Low: Check battery in hand-held transmitter  
Reprogram and resynchronize → range still low → Contact Innotek

No Stimulation: Reprogram and resynchronize collar with hand-held remote →  
No stimulation → Contact Innotek

## Test Loop Instructions

Cut a piece of wire at least 10 feet long.

Remove the yard wires from the wall transmitter.

Insert both ends of the test loop wire in the wall transmitter.

Turn the field width knob to 9 o'clock or a low setting.

\* With the collar in hand, back up to be outside the field and approach the test loop.

\* Make a mental note of the distance between you and the wire when the collar activates.

Turn the field width knob to 12 o'clock or a medium setting (repeat steps marked by \*)

If there is a red light on the transmitter and the collar is responsive to different ranges:

Wire problem, suggest RF Choke

If there is a red light on the transmitter and the collar is not working: Collar problem

If there is no light on the transmitter: Check adapter → adapter is good → trans problem

## RF Choke Instructions

(Available at Radio Shack #273-102)

Disconnect the adapter from the 110 outlet.

Disconnect the yard wires from the wall transmitter.

Stand the leads of the Choke in the shape of a horseshoe.

Wrap the yard wires (one to each) around the Choke leads near the cylinder.

Plug the Choke leads into the wall transmitter.

Plug the adapter into the 110 outlet.

Set the field width knob high enough to obtain a signal on the portable radio.

Set a portable AM radio to AM-60 or AM-600.

Signal will be absent when standing on the twisted wire area.

When standing on the single wire area, user will hear pulsating static.

Hold the radio chest high and swing the radio over the wire while user walks around boundary.

When tone weakens or stops, examine the wire 3-4 feet in each direction.

No sound = complete break in the wire.

Fading or change in pitch = nick in the insulation.

## Wire and Installation Tips

**Cancel Signal:** Canceling a signal requires twisting the beginning and ending wires of the same loop. Cannot cut a piece of wire, place it at a designated area, and twist it to cancel the signal. This will interrupt the signal.

**Double loop:** Allows dog to enter and exit back door without receiving correction.

**Fuse Box:** Wall transmitter should be mounted at least 6-10 feet from fuse box, circuit breaker, or major electrical appliances.

**Metal:** Keep wire 6-10 feet from metal in the yard. Metal will amplify the field width.

**Splices:** Wire connections must be waterproof. Using electrical tape, solder, twisted wire nuts will cause an intermittent signal or harm the system.

**Utility lines:** Keep wire 6-10 feet from buried utility lines (electric, gas, phone, cable, satellite dish, etc.) These will increase the field width as the utility line becomes an antenna.

Cross the buried utility lines at a 90-degree angle. Crossing at smaller or larger angle will increase the chance of signal bleeding to other places in house or yard.

**Wire:** Wire supplied from Innotek is solid copper core, insulated for direct burial. Do not use stranded wire -- it is less durable.

Best to use only one gauge and one type of wire throughout containment system.

Mixing gauges is acceptable; however, the signal field will only be as strong as the smallest gauge of wire (20 gauge is smaller than 18 gauge). Different gauges within one system may increase or decrease the total signal area slightly.