

Please read these instructions before using.

Thank you for purchasing this Contech product.

What you will need:



Cautionary Reminders

Malfunctioning sprinklers carry an inherent risk of causing water damage to your property. Mitigate your risks by limiting the amount of water available to the unit (open hose valve 3/4 turn maximum), employing good quality hoses (or preferably using hard plumbed irrigation pipes) and ensuring your water pressure is within the normal operating range for the unit.



Intended to operate between 30 and 80 psi (2 - 5.5 Bar).
Install a pressure-reducing valve on the tap if your water pressure exceeds 80 psi.



When pushing the stake into the ground, do not push down or apply weight on the sensor housing.



Before disconnecting the unit or the hose, always turn water OFF and activate the unit with your hand to reduce line pressure in the hose.



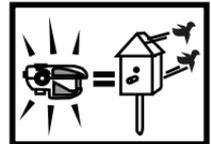
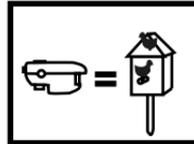
Before the first winter frost, take the Scarecrow inside and remove battery.



Dust, dirt or hard water buildup on the white lens will limit sensitivity. Keep the lens clean by wiping gently with a damp cloth.

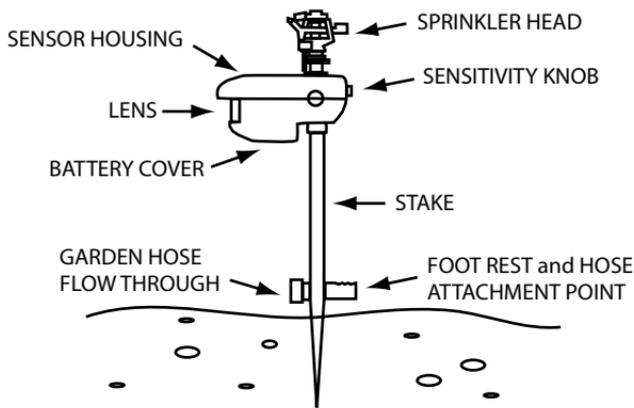


The 'eye' on the Scarecrow decal may frighten small birds.



Avoid pointing at moving water, windy areas and moving vehicles.





Scarecrow Assembly Guide

If you encounter any problems while assembling your Scarecrow, please refer to Troubleshooting section.

1 Examine the contents of the Scarecrow package.

Your Scarecrow package includes:

A. Owner's manual with warranty registration and survey.

B. Sprinkler



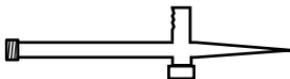
E. Scarecrow Decal Sheet



C. Sensor Housing



D. Stake



F. Flow Through cap



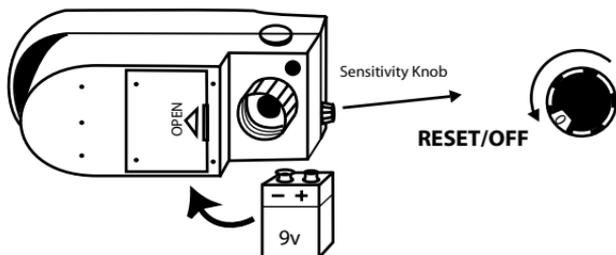
G. Quick Connect Coupling



OPTIONAL: Scarecrow's beak and eye decals can be applied now.

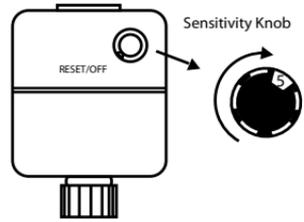
2. Open battery cover and install 9-Volt battery.

The battery cover is located under the sensor housing.



3. Check Scarecrow operation. (Dry test)

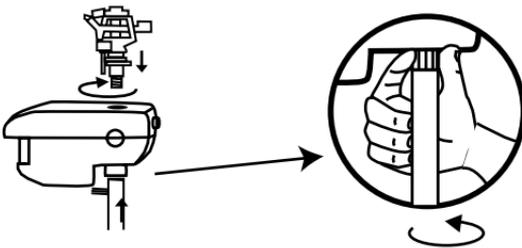
First, turn the sensitivity knob to 4 or 5. Next, wave your hand in front of the sensor lens. You should easily hear the Scarecrow's internal water valve 'click' open, then 'click' closed 3 seconds later. There is an 8-second 'reset' interval after the valve closes when the sensor does not detect motion.



If you hear no "clicking", try a new battery. If the problem persists, call the factory toll-free at 800-767-8658 for assistance or email support@scatmat.com.

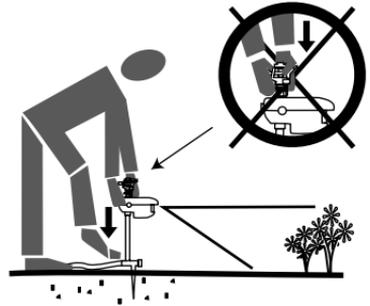
4. Attach sprinkler head and stake to housing.

These fittings should only be hand-tightened.

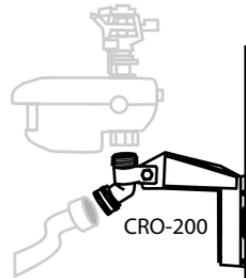


5. Connect hose and position the Scarecrow(s).

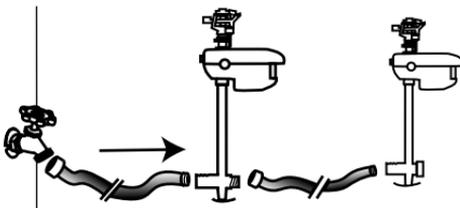
Aim the Scarecrow towards the area you want to protect. Push the spike into the ground by stepping on the footrest. Place your hands on the sensor housing to guide and adjust the Scarecrow's direction.



Do not push on the sensor housing or sprinkler head. If the ground is too hard or otherwise unsuitable for the plastic stake, order the CRO-200 Scarecrow Universal Mounting Bracket.



multiple connections



Setting Sensitivity



If you can hear the Scarecrow's 'clicks' from 10 meters (35 feet) away, you do not need to turn on the water for this section. In a noisy area where the audible 'clicks' cannot be heard each time you move, please turn the water on for setup purposes.

1. Turn the sensitivity knob on (see chart).

Sensitivity Knob

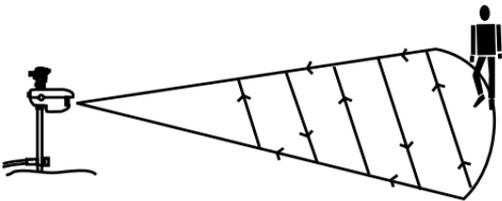


RESET/OFF



Set the sensitivity knob high enough to 'see' the target animal when it is within reach of the 10 meter (35-foot) water spray, but not beyond that point. It is not beneficial to sense animals or moving objects outside the area you wish to protect.

2. Confirm sensing area.



The scarecrow is most sensitive to movement across the field of view. Motion towards or away from the sensor may not always trigger the unit.

Start outside your desired coverage area and work your way inwards. The Scarecrow's sprinkler will activate once it detects you. Make minor adjustments until you feel the Scarecrow will only trigger when movement is detected inside the water spray area you've previously set. After the 3 second pulse of water, remain still for approximately 8 seconds after each activation while the Scarecrow resets itself. Repeat this process until you have a good idea of the Scarecrow's area of coverage at this setting.



If you decide to turn the water on for your setup process, just point the water spray to one side to avoid getting wet.

3. Increase or decrease the Scarecrow's sensitivity.

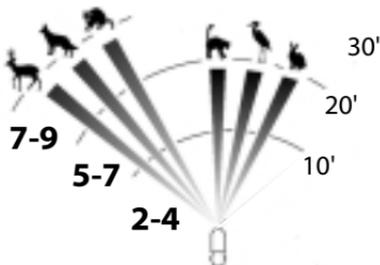
Suggested Sensitivity Settings

Sensitivity Settings

2-4

5-7

7-9



Adjusting Water Coverage

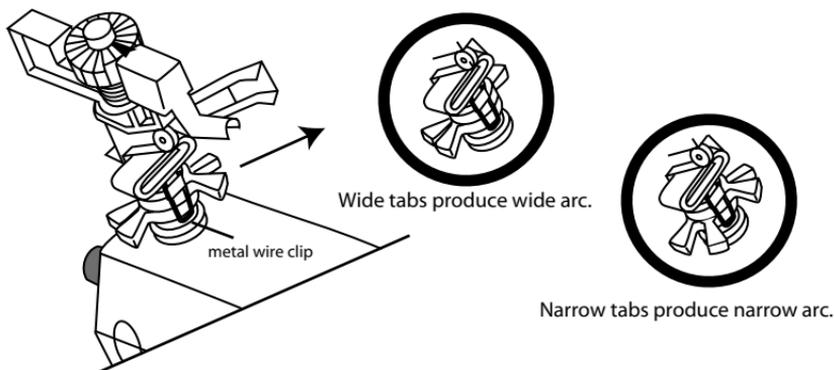
After you have set the Scarecrow's sensitivity and positioned it securely with its lens aimed at the desired area, use this section to help you adjust the arc and distance of the Scarecrow's water spray.

Make sure the *water is turned OFF*, then follow the steps below.

1. Position stem tabs to adjust sprinkler travel.

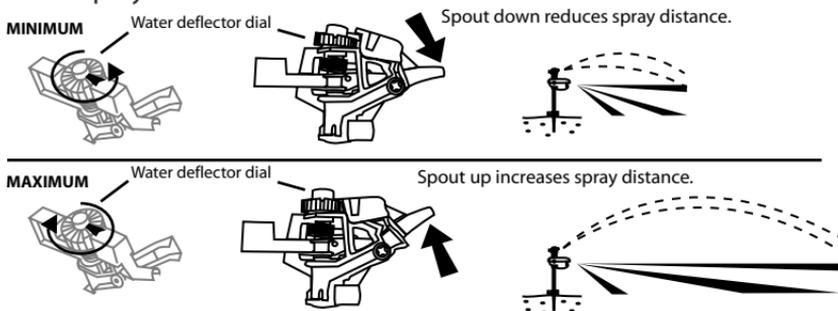
Position the stem tabs so the *metal wire clip* travels between these tabs and *faces the area to be sprayed*. Stem tabs determine the arc range of the Scarecrow, from 0 to 300 degrees.

As the sprinkler is activated, it rotates. The rotation will eventually bring the metal clip into contact with the tab. This contact causes the sprinkler to reverse its direction. When operating normally the sprinkler head will cycle back and forth from side to side.



2. Adjust the distance of water spray.

Raise or lower the water deflector dial to control the distance of the water spray.



3. Turn the water ON and test from behind.

The Scarecrow should activate. Adjust the arc and distance to suit your needs.

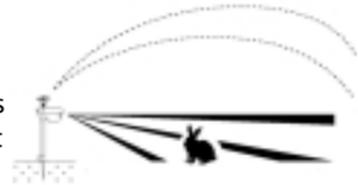


How The Scarecrow Works

The Scarecrow protects any open area of the garden or yard that receives the unwanted attention of animals. Its sprinkler directs water accurately up to 10 m (35 feet), protecting a 90 square meter (1000 square foot) area. The Scarecrow can see large animals farther away than it can small animals.

The Scarecrow uses a passive infrared sensor to 'see' the temperature difference between an animal and the background. However, if the animal and the background are similar temperatures the Scarecrow will have difficulty detecting movement.

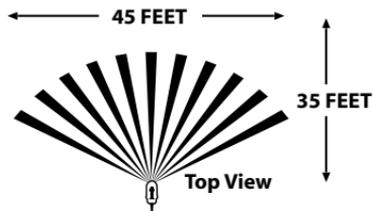
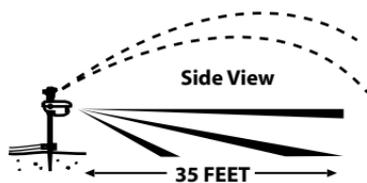
When an animal or person moves into the field of view, the scarecrow notices the change and opens an electronic valve to release a three second burst of water through the sprinkler. The Scarecrow then pauses for 8 seconds before resuming sensing. This pause creates an element of randomness and unpredictability preventing animals from becoming used to the device.



Sensing Area

The sensing area consists of several dozen 'alleyways' through which an animal must cross to be detected.

DETECTION RANGE



Animals like rabbits, cats and squirrels may cross under or through the sensor 'alleys'. The sensor will eventually 'see' them. Larger animals and people are 'seen' the easiest.



The chart on page 4 shows sample settings for various animals. Notice that all animals can be seen up close, but only larger animals can be seen further away.

Sensitivity 'Auto Adjust'

Nuisance or false triggering shortens battery life. When this happens the electronics will automatically reduce it's sensitivity within five minutes (except for a 1 hour period when the battery is first connected or sensor knob is adjusted.) False activations are most noticeable during windy conditions.

Troubleshooting

If you encounter a problem not covered here, please refer to the detailed Troubleshooting section of our website at www.scarecrowinfo.com

The Scarecrow seems to have erratic sensitivity.

This could be due to the Scarecrow's auto-adjust circuit. Turn the sensitivity knob to the OFF (0) position for two seconds. This resets the auto-adjust circuit.

The Scarecrow does not 'see' animals.

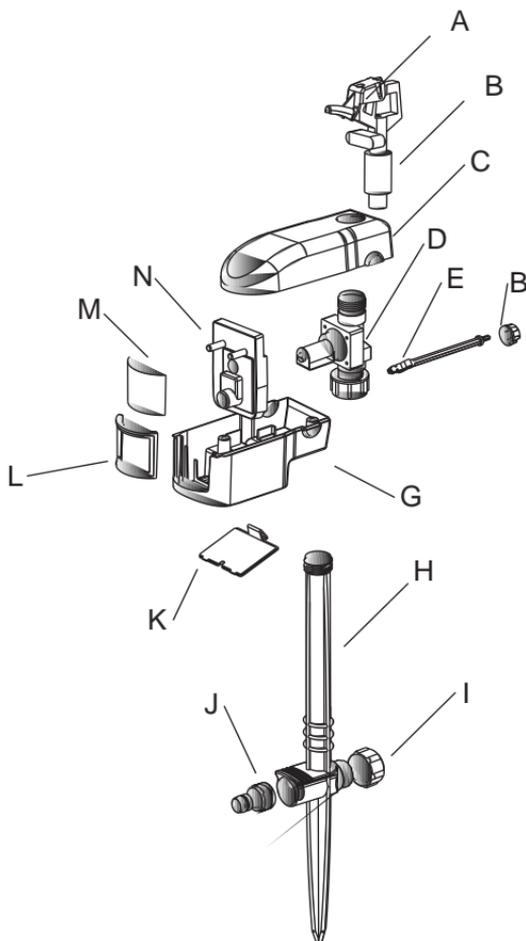
Re-aim the Scarecrow. Refer to figure 2 on page 6 of this manual.

The Scarecrow only 'spits' water.

This indicates the battery is low or your water pressure is too high. Replace the battery or add a pressure reducer to the water supply.

The Scarecrow leaks water through its sprinkler.

Debris is lodged in its fittings. Remove the sprinkler head and stake. Backflush water through the valve in the sensor head to dislodge the debris.



Scarecrow Guarantee

All Contech Electronics, Inc. products are backed by a 30-day money back guarantee. If your Scarecrow does not meet your expectations, return it to where it was purchased, in new condition within 30 days of receipt for a full refund of the purchase price.

Scarecrow 2 Year Warranty

Contech Electronics, Inc. warrants to the original purchaser of its products that the product will be free from defects in material and workmanship for a period of two (2) years. This warranty does not cover damage caused by or attributable to acts of God, abuse, misuse, improper maintenance, or damage caused in transportation.

Contech Electronics, Inc. is not responsible or liable for indirect, special, or consequential damages arising out of or in connection with, the use of this product, or damages with respect to any economic loss, loss of property, or loss of revenues or profit.

Except as provided herein, Contech Electronics, Inc. makes no express warranties, and denies any implied warranty or merchantability or fitness for a particular purpose. Charges will be rendered for repairs to the product after the expiration of the aforesaid warranty period. This warranty may not be transferred.

To activate your warranty, please return the warranty registration portion of these instruction by fax or mail.

Return Policy

We want you to be pleased. If something isn't right, call us toll free at 800-767-8658. If we can help you over the phone we will, and if not we will give you a return authorization number and shipping instructions. When we receive your package we will repair, replace or promptly issue a refund at your option if purchased directly from Contech. Unauthorized returns will not be accepted. Refunds can only be made by the retailer transacting your purchase. Please call before sending any package.

Questions?

Fax your question toll free, visit our Web site online at www.scatmat.com or call us between 8:00 and 4:30 Pacific Standard Time.

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NOTE! The Scarecrow may false trigger under certain high frequency electromagnetic interference conditions.

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