

# STI Wireless Driveway Monitor™

## Part of the Wireless Alert Series

**Models:** STI-V34150 - Battery Power Kit  
STI-V34100 - Solar Power Kit  
STI-34151 - Battery Powered Sensor  
STI-34101 - Solar Power Sensor

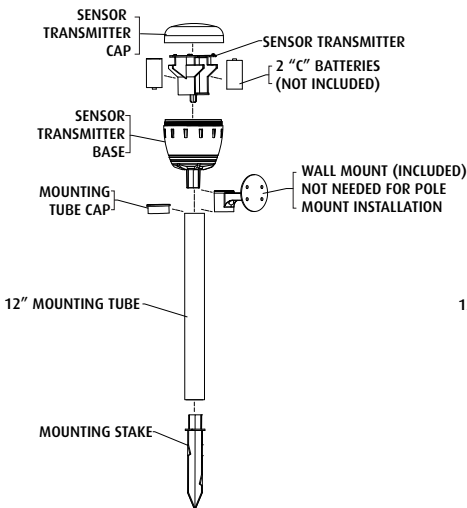
Thank you for purchasing the STI Wireless Driveway Monitor. Your satisfaction is very important to us. Please take the time to read this manual carefully to get the most from your new product.

### How the product works

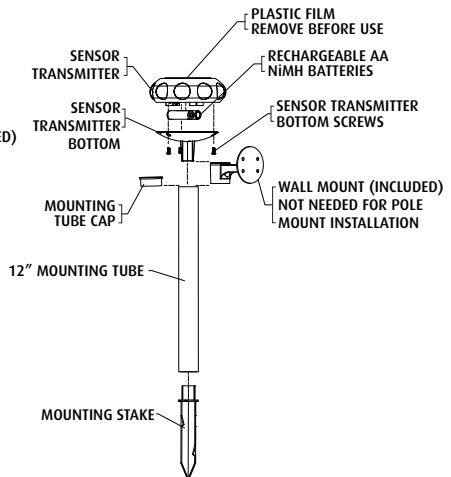
Because of its patented magnetometer sensor transmitter system, the Driveway Monitor will only be triggered by cars or trucks - not people, animals and so forth. When a vehicle passes the Motion Alert® Sensor Transmitter next to the driveway, the receiver unit inside the office or home sounds a programmable message. The earth has a uniform magnetic field around it. A vehicle creates a slight disturbance in the earth's field. The sensor transmitter detects this disturbance and transmits a signal to the receiver.

### Before you start

Refer to this drawing to become familiar with all the parts.



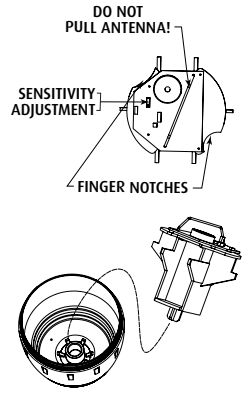
**BATTERY POWERED SENSOR TRANSMITTER**



**SOLAR POWERED SENSOR TRANSMITTER**

## Install batteries into the sensor transmitter Battery Powered (STI-V34150 & STI-34151)

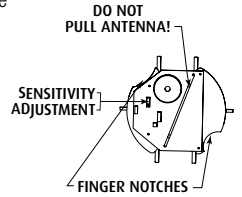
1. Remove the sensor transmitter cap by turning it counterclockwise.
2. WITHOUT PULLING ON THE BRASS ANTENNA OR ANY WIRES, grasp the outside of the battery/circuit board holder by the finger notches, twist gently and pull out. Insert two "C" alkaline batteries (not included).
3. Replace the battery holder/sensor transmitter and sensor transmitter cap.
4. To test or program sensor transmitter, place the sensor transmitter on a table or counter approximately 5-10 ft. away from the receiver. **Sensor transmitter can be activated by rotating** and will make a faint clicking noise to verify operation.
5. Sensor should be programmed to receiver before mounting outdoors. Refer to receiver instructions for programming.



## Sensitivity Adjustment

The factory default setting (HIGH) may be adjusted by changing the jumper position inside the sensor transmitter.

1. Unscrew cap.
2. Position the jumper to desired sensitivity (as shown).
  - LOW: Position jumper on the two bottom pegs.
  - MEDIUM: Completely remove jumper or hang on middle peg.
  - HIGH: Position jumper on the two top pegs.
3. Replace cap.



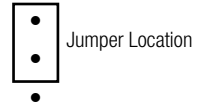
### Low Sensitivity Setting:



### Medium Sensitivity Setting:

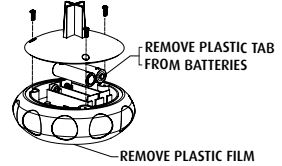


### High Sensitivity Setting:



## Solar Powered (STI-V34100 & STI-34101)

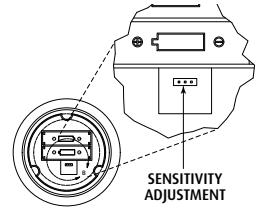
1. Remove plastic film on solar panel.
  2. Remove the bottom of the sensor transmitter by removing the 3 screws on the bottom of the unit.
  3. Remove the plastic tab between the batteries.
  4. Replace the bottom of the unit and secure with the 3 screws. Place the sensor transmitter in direct sunlight for 48 hours.
- OR
5. Place batteries in a NIMH (nickel metal hydride) battery charger (before using). Once charged, return the batteries to the sensor transmitter. Replace the bottom and secure with the 3 screws.
  6. To test or program sensor transmitter, place the sensor transmitter on a table or counter approximately 5-10 ft. away from the receiver. Sensor can be activated by rotating. **Sensor transmitter can be activated by rotating** and will make a faint clicking noise to verify operation.
  7. Sensor should be programmed to receiver before mounting outdoors. Refer to receiver instructions for programming.



## Sensitivity Adjustment

The factory default setting (HIGH) may be adjusted by changing the jumper position inside the sensor transmitter.

1. Remove the bottom of the sensor transmitter by removing the 3 screws on the bottom of the unit.
2. Position the jumper to desired sensitivity (as shown below).
  - LOW: Position jumper on the two leftmost pegs.
  - MEDIUM: Completely remove jumper or hang on middle peg.
  - HIGH: Position jumper on the two rightmost pegs.
3. Replace the bottom of the unit and secure with the 3 screws.



### Low Sensitivity Setting:



### Medium Sensitivity Setting:



### High Sensitivity Setting:

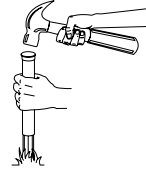


## Installation Instructions

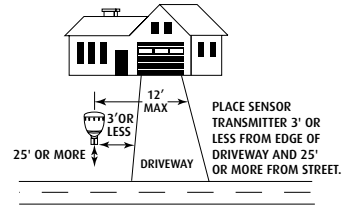
The Solar Sensor Transmitter must be placed in an area that receives partial or full sunlight. For both models, be sure the location of the sensor transmitter is at least 25' back from the main road. For a typical 12' wide driveway, it is recommended the sensor transmitter be no more than 3' away from the driveway (see drawing). Additional sensor transmitters may be required for driveways exceeding 12'. Sensor transmitter may be placed up to 1,000 feet away from receiver; however, range may vary depending upon environment and use of wireless telephones, wireless routers and other similar devices.

### To obtain optimal range

1. Place cap on tube.
2. Insert stake to opposite end of tube.
3. Place the tube (stake side down) into the ground within 3' of the driveway and more than 25' from the road.
4. Gently hammer the cap side of the tube until stake is firmly in the ground.
5. Remove cap and place sensor transmitter on tube.
6. The sensor transmitter should have a clear line-of-site to the receiver to improve performance.
7. Place the sensor transmitter so the vehicle does not pass between it and the receiver.



STI recommends the use of the stake and tube included with your Driveway Monitor. However, if you choose to mount the unit to an alternate mounting device, please be sure the device is stable. STI **does not recommend** mounting the sensor transmitter to a tree or a metal fence or gate.



## TROUBLE SOLUTION

The RECEIVER does not sound when a vehicle passes.	<ol style="list-style-type: none"><li>1. Check that the receiver is not in Temporary or Permanent Silent Mode (red LED solid).</li><li>2. Check the sensor transmitter by picking it up and rotating it. The sensor transmitter should make a "faint clicking" noise.</li><li>3. Check that the sensor transmitter and receiver are within operating distance from each other.</li><li>4. Check the sensor transmitter batteries and replace if necessary.</li><li>5. Reprogram the receiver using the steps in "Clearing the receiver memory" and "Program a device into the receiver."</li></ol>
The SENSOR TRANSMITTER does not activate when a car passes.	<ol style="list-style-type: none"><li>1. Check that the sensor transmitter and receiver are within operating distance from each other.</li><li>2. Change the Sensitivity in the sensor transmitter using the steps in "Sensitivity Adjustment."</li><li>3. Check that the sensor transmitter and receiver are located so a vehicle does not pass between them.</li><li>4. Change the location of the sensor transmitter by placing it closer to the edge of the driveway.</li><li>5. Bring the sensor transmitter close enough to the receiver so the receiver button can be heard. Test the sensor transmitter by passing a steel shovel or large magnet around the sensor transmitter. The sensor transmitter should make a "faint clicking" noise and the receiver should sound.</li><li>6. Check the sensor transmitter batteries and replace if necessary. On the solar powered driveway monitor, make sure the sensor transmitter is in direct sunlight and has been charged in direct sunlight for at least 48 hours after replacing batteries. Use only AA (1.2v) NiMH rechargeable batteries.</li><li>7. Reprogram the receiver using the STI-V34104 install.</li></ol>
The RECEIVER sounds when there is no vehicle passing.	<ol style="list-style-type: none"><li>1. Sensor transmitter mounted firmly and not effected by wind?</li><li>2. Sensor transmitter at least 25' away from the main road?</li><li>3. Be sure there are no other metal objects near the sensor transmitter that may move.</li><li>4. Reprogram the receiver using the STI-V34104 install.</li></ol>

Still having problems Call STI Technical Support at 800-888-4784

## Important notice

This product has been tested and complies with the specifications 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 according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is found 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 or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

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. Changes or modifications not expressly approved by Safety Technology International, Inc. could void your authority to operate this equipment.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

Model 34101

FCC ID: TXL34101

IC: 6335A-34101

Model 34151

FCC ID: TXL34151

IC: 6335A-34151

## Warranty information

Safety Technology International, Inc. warrants to the **original** consumer/purchaser that this product shall be free of defects in material and workmanship under normal use and circumstances for a period of one (1) year from the original date of purchase.

Electronic warranty form at [www.sti-usa.com/wc14](http://www.sti-usa.com/wc14).

## Additional Wireless Alert Series Products

STI-34098	Single Channel Slave Receiver	STI-6517A	Wireless Stopper® Station Shield with Sound
STI-V34104	4-Channel Voice Receiver	STI-6517B	Wireless Stopper® Station Shield with Sound and Transmitter
STI-34108	8-Channel Receiver		
STI-34101	Solar Powered Driveway Monitor Sensor	STI-6517C	Wireless Stopper® Station Shield with Wireless Button
STI-34151	Battery Powered Driveway Monitor Sensor		
STI-34201	Wireless Mail Alert Sensor	STI-6517D	Wireless Stopper® Station Shield with Button Sound and Transmitter
STI-34301	Wireless Garage Sentry Sensor		
STI-34401	Wireless Universal Alert Sensor	STI-30105	Extended Antenna
STI-34501	Wireless Door Entry Alert® Sensor	STI-30106	Mounting Replacement Kit (includes cap, wall mount, tube and stake)
STI-34601	Wireless Doorbell Button		
STI-34701	Indoor Wireless PIR	STI-34105	Voltamax 12VDC (500mA) Power Supply
STI-34752	Outdoor Wireless PIR	STI-34106	Keyfob
STI-6200WIR	Wireless Fire Extinguisher Theft Stopper®	STI-34188	8-Zone Relay Board
STI-6400WIR	Wireless Exit Stopper Door Alarm		



## Safety Technology International

2306 Airport Rd • Waterford, MI 48327, USA  
Phone: 248-673-9898 • Fax: 248-673-1246  
[info@sti-usa.com](mailto:info@sti-usa.com) • [www.sti-usa.com](http://www.sti-usa.com)

Taylor House • 34 Sherwood Road • Bromsgrove  
Worcestershire • B60 3DR • England • Tel: +44 (0)1527 520 999  
Fax: +44 (0)1527 501 999 • [info@sti-emea.com](mailto:info@sti-emea.com) • [www.sti-emea.com](http://www.sti-emea.com)