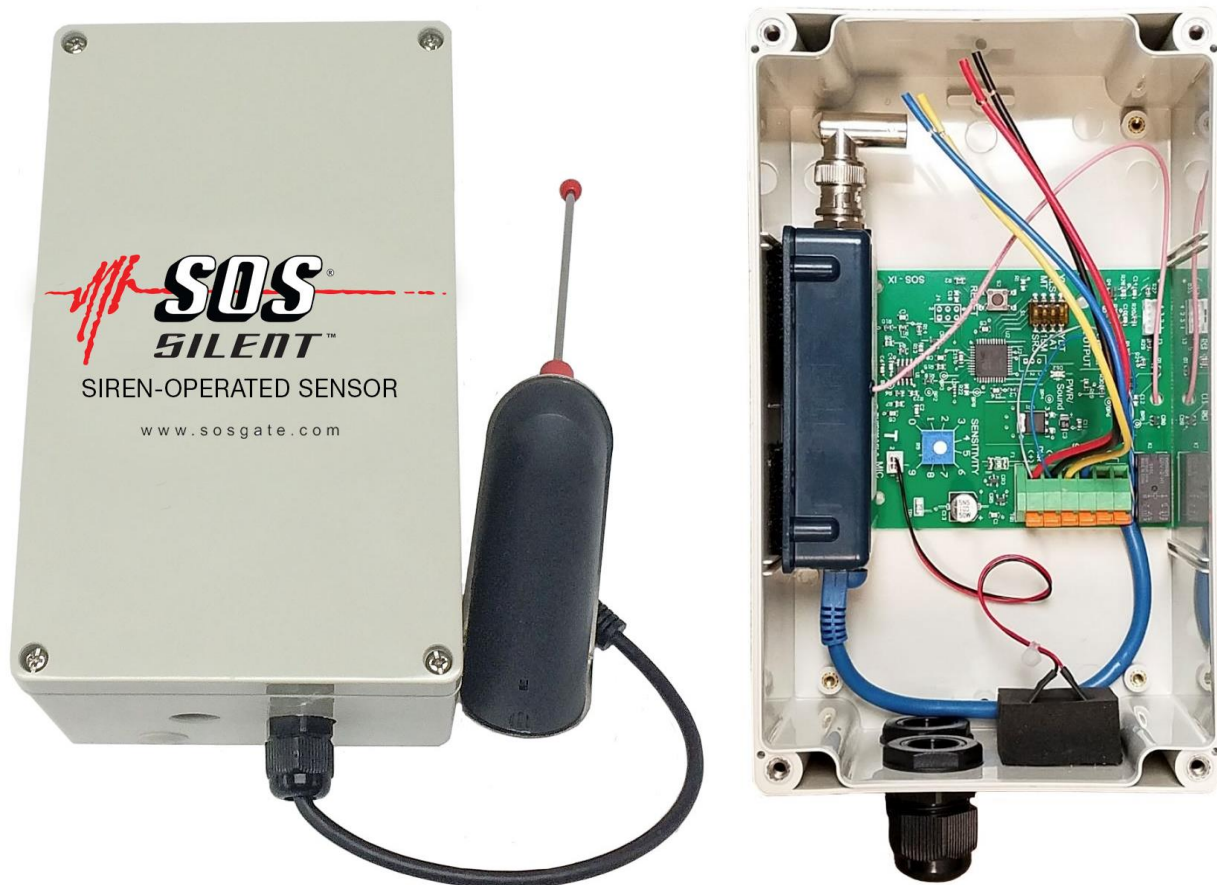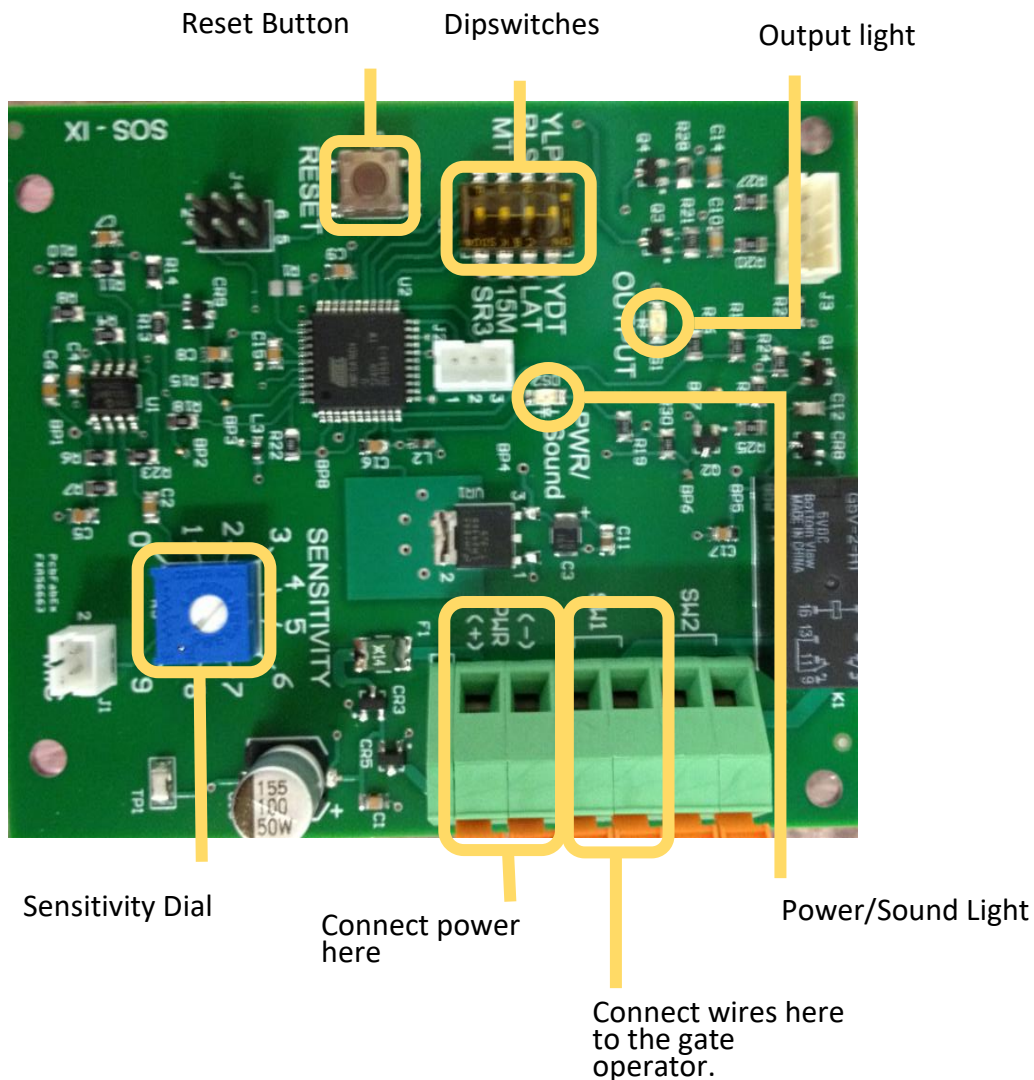# SOS SILENT INSTALLATION AND TESTING INSTRUCTIONS

Mounting the Unit

1. Remove the face plate of the SOS SILENT unit.
2. Identify a location inside the fence to mount the SOS SILENT unit. Do not select a location inside the gate operator enclosure or near any noisy machinery that could interfere with the sensor picking up the siren.
3. Using the screws provided, mount the SOS SILENT unit right side up with the antenna wire coming out of the bottom of the enclosure. The enclosure has four pre-drilled holes for mounting. WATER DAMAGE will void the warranty.   If additional holes are drilled into the enclosure or if you use the small knock-out hole in the bottom for wires, please make these holes water tight with silicone.

Note: If mounting the SOS onto metal, do not allow metal shavings from drilling, to collect on the magnetic back side of the microphone.

4. Attach wires from power source, such as the gate operator unit or a battery, to the wires coming out of the power terminals on the SOS IX board. **The power must be 12 volts DC**.
5. Once power is connected, the Power/Sound – amber LED will blink every 5-8 seconds and the LED on the Silent Board will light up with "- - 03".
6. Attach wires to the COM ("common") terminal and the NO ("open") terminal.   Touch these two wires together and the gate should open.   If the gate does not open, the wires have not been connected correctly to the gate operator.
7. Attach these wires to the wires coming out of the SW1 terminal.
8. Wires can be brought into the enclosure through the small plugged knock-out hole at the bottom.   WATER DAMAGE will void the warranty.   If additional holes are drilled into the enclosure please make them water tight.

IMAGE 3

IMAGE 4

IMAGE 5

Connecting the Antenna (Images 4 and 5)

9. Cut the coaxial cable to desired length. The shorter the cable the less interference.
10. Unscrew the cover off the antenna (Image 4).
11. Strip the coaxial cable. Screw down the copper center wire onto the copper antenna base (red).
12. Twist the remaining mesh sheath insert into the crimp connection (blue). Crimp the connection tight.
13. Screw the cover of the antenna back on.

Tuning the RFID Antenna

14. To adjust the read distance from 10 feet up to 300 feet you will need a tuning kit, sold separately.   The kit comes with instructions on how to tune the read distance to the desired amount.

Testing the Unit

Properly testing the unit involves two sensitivity tests: a CD test and a live siren test. SOS recommends keeping the sensitivity at the lowest setting that will still trigger the gate.

RFID tags need to be more than 300 feet away since they will trigger the unit when within range.   First test the SOS Function without an RFID tag present.   Then test the RFID tags.

15. Begin the CD test by turning the sensitivity dial clockwise to setting 9 (maximum sensitivity).
16. Using the Yelp Siren CD provided, test the sensor with a portable CD player at the loudest setting. Hold the portable CD player close to the microphone located on the bottom of the unit. The gate should open within 3 seconds. In the absence of the CD, go to our website at www.sosgate.com to download a yelp sound and burn it to a CD, or download the file to your phone from www.sosgate.com.
17. Bring an RFID tag into range and the gate will open.
18. Next, begin the live siren test by turning the sensitivity dial down to 7.
19. Have an emergency responder run their "yelp" siren for up to 10 seconds or until the gate is triggered. If the gate does not open, increase the sensitivity and test again. **Note:** Every time the siren is interrupted or changed, the digital processor begins the process over again, so it is best to leave the siren on until the gate triggers.
20. Lastly, have the emergency responder drive past the gate on the road with their "yelp" siren on. This is to ensure the sensitivity is not too high so as to prompt the gate to false trigger at the sound of a passing emergency responder. Adjust the sensitivity dial as needed.

SOS recommends inviting an emergency responder out once each year to help you conduct a live siren test. This will ensure the unit remains in good working order. Most emergency responders will gladly perform this service but it is the gate owner's responsibility to invite them.

Adjusting Dipswitch Settings on the SOS Board

Dipswitch 1: When this switch is in the YLP position, the sensor will detect only a "yelp" siren and will open the gate after a valid signal has been detected for 3 seconds. When the switch is in the YDT position, the sensor will open the gate once it has detected any siren or any continuous loud noise (such as a loud engine) for 5 seconds. To avoid false triggers, SOS suggests keeping this switch in the YLP position.

Dipswitch 2: When this switch is in the RLS position, the sensor will not interfere with the gate's normal closure time. When the switch is in the LAT position, the gate will remain open until the reset button is pushed or power is recycled. This will override any other programming for closing times and the gate will remain open until it is reset. There is a reset button on the outside of the enclosure.

Dipswitch 3: When this switch is in the MT position, the sensor will not interfere with the gate's normal closure time. When the switch is set to 15M, the gate will remain open for 15 minutes. **Note:** When switch #2 is in the LAT position, the settings for switch #3 are irrelevant.

Dipswitch 4: This dipswitch is not currently being used.

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