

# EXIT WAND

## USER MANUAL



**Read Carefully Before Use**  
**Keep for Future Reference**

## Safety Information



### Warning!

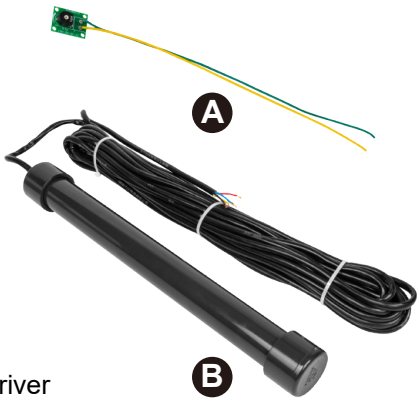
**NOTE:** Read these instructions completely before installation and use. Always disconnect all power from electronic components during installation and maintenance except as specifically instructed for safely testing functionality. Ensure all wiring is properly grounded and protected. The underground cable must be encased in a protective tube or conduit (not included).

**NOTE:** Any large moving object made of ferromagnetic metal—iron, steel, nickel, etc.—can potentially activate this device. Depending upon its placement and settings, such objects may include riding lawnmowers, ATVs, bicycles, and even children's tricycles. Exercise caution during setup, test any such objects that might be used nearby, and provide proper training and warnings to all persons who will be passing through the gate controlled by this device. Ensure they understand the potential risks, safe operation procedures, and how to avoid potential entrapment and pinch points in the case of an emergency or malfunction.

- **ONLY** install and use this device in accordance with these instructions, the separate instructions for your gate opener, and all applicable local and national laws and regulations. Adding instructional or warning signage may be necessary in your area or if there will be pedestrians or children nearby during use. Failure to configure and use this device properly may result in serious property damage and severe personal injury.
- **ONLY** use this device for its intended purpose, opening and closing a single sliding gate or swing gate to facilitate vehicular traffic. Pedestrians should be warned about the device, kept away when vehicles are nearing its sensing range, and provided with a separate access point far enough away to ensure they never come into contact with the moving gate.
- **DO NOT** install this device in a location where passing traffic or the gate itself might activate it. Installing it in a location 13 feet (4 m) away from such traffic and from the gate itself is highly recommended.
- **DO NOT** use this device in locations where its accidental activation might release children, pets, or livestock without their caretaker's knowledge. In such settings, a separate remote or keypad control can be used on the enclosed side of the gate and the exit wand on the opposite side, but it must be carefully configured and protected to eliminate any possibility of accidental activation.
- **DO NOT** install this device in any area prone to flooding or exposed to flammable or explosive fumes.
- **DO NOT** tamper with or modify this device. Modifying its components or settings can compromise its functionality and may lead to malfunctions and/or cause safety hazards.

Package List

NO.	Item	Qty
A	Range Adjustment Board	1
B	Exit Wand and Cord	1



Not Included but Necessary

Electrical Gloves, Shovel, Conduit, Spirit Level,  
Electrical Tape / Wire Nut, Phillips-Head Screwdriver

Specification Details

Rated Power	Signal Output	0.036-0.078 W	
	Input Voltage	12-26V AC/DC	
	Input Current	3 mA	
Max. Sensing Radius		12 ft.	3.6 m
Recomm. Operating Temperature		25-125°F	-4 to 69°C
Wand to Gate Distance	Minimum	13 ft.	4 m
	Maximum	45 ft.	13.7 m
Wand	Length	16.5 in.	42 cm
	Diameter	2 in.	5 cm
Cord Length	wand	50 ft.	15.2 m
	Range Adj. Board	9.8 in.	25 cm
Net Weight		4.6 lb.	2.1 kg

Installation

Digging

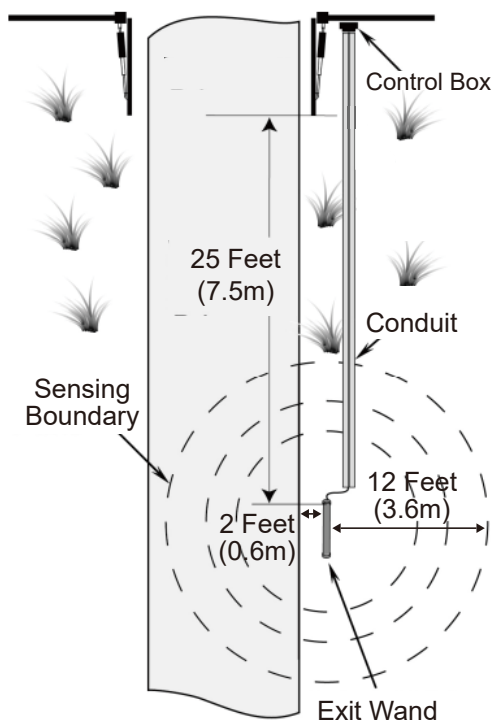


Always check for and disconnect any nearby water, electrical, and gas lines before digging.



Once digging begins, keep any children or passersby away from the area until everything is covered and finished.

1. Select the location for your exit wand. It should be on the same side of your gate as the control box for your opener and no farther than 2 feet (60 cm) from the side of your driveway, allowing its sensor to detect vehicles across the width of your drive while minimizing the risk of accidental damage. Out of an abundance of caution, it should at least be 13 feet (4 m) from any public road and from the fully open position of your gate, minimizing the risk of accidental activation. It should not be further than 45 feet (13.7 m) from the gate.



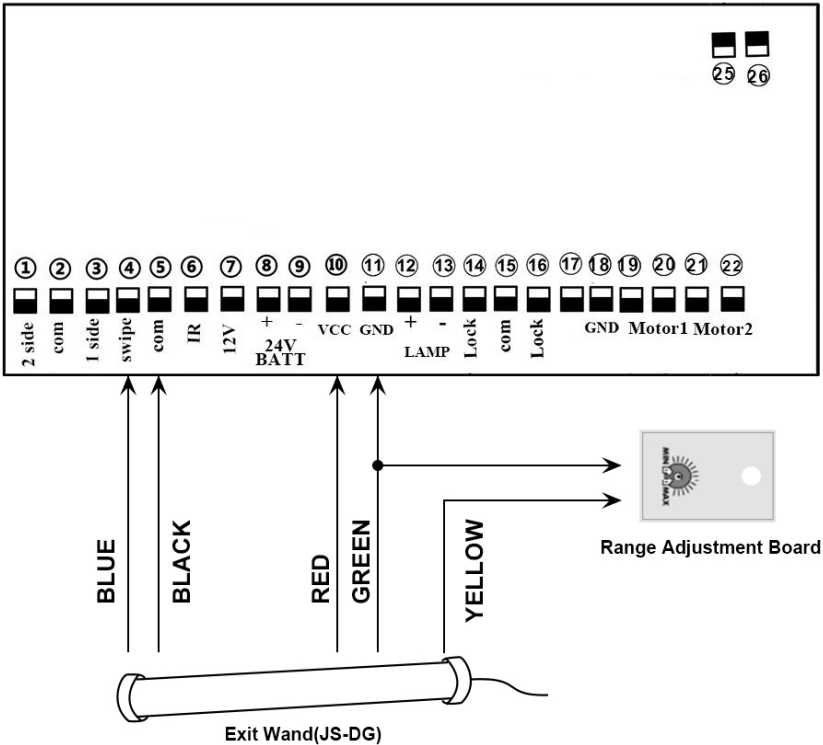
2. Prepare the necessary length of conduit to run from this point to the control box. Using PVC pipe is standard. Remove any obstacles along this path and thread the cord of the exit wand through your conduit.
3. Dig a hole for the wand running parallel to your driveway. It should be about 2 feet (60 cm) long, at least 3 inches (7.5 cm) wide, and about 1 foot (30 cm) deep.
4. Dig a trench about 1 foot deep between your hole and the control box, making sure it will be able to easily accommodate your wiring conduit.
5. Place the wand in its hole and the conduit in its trench but do not cover them yet.

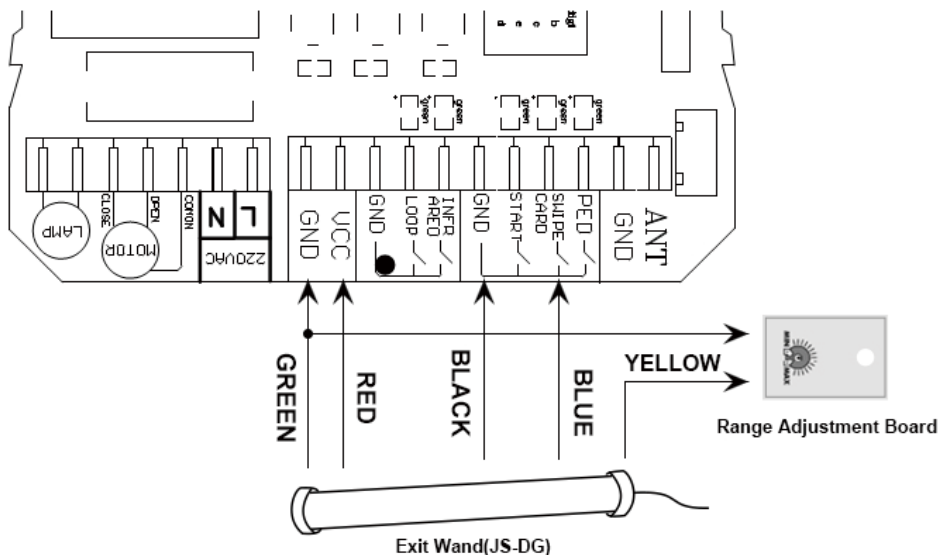
# Wiring



Only make connections and adjustments to your gate opener and its circuit board in accordance with their separate manual(s). Never leave any wiring exposed.

- 1. Fully disconnect your gate opener and its control box from their power source.
- 2. Access the gate opener circuit board.
- 3. Separate the different-colored wires coming from the range adjustment board and from the end of the wand's cord.
- 4. The yellow wires provide the range adjustment signals. Connect the ends of the two yellow wires together, wrapping the connection in electrical tape or covering it with a wire nut.
- 5. The blue wire provides the main control signals. Connect it to the pin on the circuit board that controls only opening the gate. This varies between systems but is usually marked "OPEN", "EXIT", "BLU", or "SWIPE". For most circuit boards, you will need to loosen the bolt limiting access to each pin, insert the wire up to its insulation, and then tighten the holding bolt back down. Use the diagrams below if they fit your model.





6. The black wire is the return line for this electrical signal. Connect it to the nearby return pin on the circuit board, usually marked “COM”, “COMMON”, “GND”, or “GRN”, in the same way.
7. The green wire from the exit wand is the negative or return power connection. Connect it in the same way to the matching negative pin on the circuit board or to one of the various return pins. These may be marked “-12V”, “-24V”, “AUX V-”, “AUX OUT L”, “COM”, “COMMON”, “GND”, or “GRN”.  
The green wire from the range adjustment board is also a return line. Connect it to any similar pin in the same way.
8. The red wire is the positive or live power connection. Connect it in the same way to the positive pin on the circuit board that provides suitable voltage to external devices. Again, this varies between systems but it may be marked “+12V”, “+24V”, “VCC”, “AUX V+”, “AUX OUT H”, or “LOCK+”. For circuit boards providing AC power, the red and green wire can be connected to the live and return pins in either order.
9. Find a suitable place within or near the gate opener circuit board for the range adjustment board to go.

## Testing

1. Remove any vehicle or large potentially moving metal object from the area around the exit wand.
2. Reconnect the gate opener and its control box to their power source. Wait at least 60 seconds while the system calibrates.

3. Drive your vehicle into the exit wand's sensing boundary to see if your gate automatically begins to open. If the wand does not detect the vehicle, increase its sensitivity by disconnecting it from power, turning the range adjustment knob counterclockwise, reconnecting power, and waiting 60 seconds for the system to recalibrate.
4. If you want to limit the ability of other objects—such as riding lawnmowers or bicycles—to automatically open the gate, test them in the same way. Use the range adjustment knob to decrease sensitivity in the same way as before, but turning it clockwise. Continue testing and adjustment until you find the best sensitivity setting for your needs.

## Wrapping Up

1. Check that the range adjustment board is still securely placed in or near the control box and will be protected against the elements. Check that all electrical connections are secure and no wiring remains exposed.
2. Replace the control box cover and tighten its fasteners.
3. Cover the wiring trench and the exit wand's hole, tamping down the soil by foot.
4. Test that the exit wand still works properly once covered.
5. Place any necessary signage if needed and begin explaining to other users how the system works and how to avoid potential entrapment or injuries in the case of an emergency or malfunction.

## Trouble Shooting

If the exit wand is not working:

1. Make sure all connections are correct.
2. Make sure the Range Adjustment is set at maximum range.
3. Disconnect the power to the exit wand.
4. Reconnect the power to the exit wand and make sure that no metal object or vehicle is moving around the exit wand for 60 seconds while it is calibrating.
5. Test the exit wand to verify that it is working properly.

## Maintenance

- Always supervise children and pets near the wand to prevent accidents, decreasing its sensitivity if necessary.
- Always fully disconnect your gate opener, its control box, and the exit wand from their power supplies before making any adjustments.