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INSTALLATION MANUAL

This product meets and exceeds the requirements of UL 325, the standard which regulates gate opener safety, as established and made effective by Underwriters Laboratories Inc. on March 1, 2000.

For more information on Boerboel's full line of products and Spanish Installation Instructions, please visit our website at: www.boerboelgatesystems.com.

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PLEASE READ BEFORE PERFORMING INSTALLATION

Thank you for your purchase of the Boerboel Gate Opener. When installed and used properly, your Boerboel opener will supply you with years of reliable service. The Boerboel opener is specifically designed to accommodate vinyl, wood, aluminum, chain link, farm, and solid fence panels. These instructions will guide you to properly install your Boerboel opener, and for more information refer to www.boerboelgatesystems.com.

This opener can be used in Class I, Class II and Class III applications.

<u>VEHICULAR GATE OPENER CLASS CATEGORIES</u>

Class I: Residential Vehicular Gate Opener - A vehicular gate opener (or system) intended for use in a home of one-to-four single family dwelling, or a garage or parking area associated therewith.

Class II: Commercial / General Access Vehicular Gate Opener - A vehicular gate opener (or system) intended for use in a commercial location or building such as a multi-family housing unit (five or more single family units), hotel, garages, retail store, or other building servicing the general public.

Class III: Industrial / Limited Access Vehicular Gate Opener - A vehicular gate opener (or system) intended for use in an industrial location or building such as a factory or loading dock area or other locations not intended to service the general public.

This device compiles with part 15 of the FCC rules. Operation is subject to the following two conditions:
  (1) This device may not cause harmful interference, and
  (2) This device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT SAFETY GUIDELINES

Following installation, be sure to follow the following guidelines:

1. Attach the **two included warning signs,** one on each side of the gate, to alert the public of the automatic gate operation. If these signs or warning labels become illegible, damaged or go missing, be sure to replace them immediately.
2. The gate is automatic and could move at any time, which can pose a serious risk of entrapment. No one should be in contact with an activated gate when it is moving or stationary.
3. Do not attempt to drive or pass through the gate while it is in its opening or closing cycle. Trying to quickly pass through the path of a moving gate is extremely dangerous. Be sure to wait until the gate has come to a complete stop before proceeding.
4. Do not allow children or pets near your automatic gate and **NEVER LET CHILDREN OPERATE OR PLAY WITH GATE CONTROLS.** Be sure to keep remote controls away from children and any other unauthorized users. Store remote controls where children and other unauthorized users do not have access to them.
5. Disconnect the opener **ONLY** when the power is turned **OFF** and **NEVER** when the gate is moving.
6. Make arrangements with local fire and law enforcement for access in the event of an emergency.
7. Be sure to review these **IMPORTANT SAFETY GUIDELINES** with all persons authorized to operate your gate.
8. **SAVE THESE SAFETY INSTRUCTIONS. MAKE SURE EVERYONE WHO IS USING OR WILL BE AROUND THE GATE AND GATE OPENER ARE AWARE OF THE DANGEROUS RISKS ASSOCIATED WITH AUTOMATIC GATES. IN THE EVENT THAT YOU SELL THE PROPERTY WHERE THE GATE OPENER IS INSTALLED, OR IF YOU SELL THE GATE OPENER ITSELF, BE SURE TO PROVIDE THE NEW OWNER WITH A COPY OF THESE IMPORTANT SAFTEY GUIDELINES.**

GENERAL

The major product features and options are highlighted below and provide guidance in planning your installation as well as identifying accessory considerations for your Boerboel Opener(s).

Boerboel Opener supports a gate up to 75 pounds, up to 8' long and has a minimum height of 36" and is designed to work for single or dual gates.

Boerboel Openers are powered through traditional electricity with an outlet or via Solar Power. The opener ships with an electric system that requires an electrical outlet, and the Solar Powered Kit is available for purchase. The chart on the right shows some considerations for choosing the best power source for your application.

In dual gate operations the Boerboel system is designed to communicate either through a hard wire or wireless connection. A hard wired connection will require burying of the cable.

Boerboel Openers work with all major types of gate materials and applications, the kit includes brackets to mount aluminum gates. The Boerboel Farm / Chain Link Bracket Kit (sold separately) is for chain link or farm gate applications while the Boerboel Wood / Vinyl Bracket Kit (sold separately) works with wood and vinyl gate materials.

Electric Power	Solar Power
An electrical outlet is required on one side of a single gate and one side of dual gate when the communications are hardwired together. Dual gates with wireless communication will require an electrical outlet on either side of the gate.	Solar Power requires no electrical outlets, and is available for purchase in the Solar Panel Kit (sold separately). Generally, every Boerboel Opener requires at least one solar panel kit. In some areas of the country more solar panels are required due to sun exposure.
If an outlet is unavailable, you may want to consider hiring an electrician to provide the appropriate power source for the gate(s).	
When communication between 2 gates is hardwired, the cable must be buried beneath the surface between the gate posts.	

Mounting your Boerboel Opener to your gate post will require additional hardware (sold separately) based on the post type and gate type. The opener can be adjusted mechanically:

Install the Boerboel Opener level and secure. Leveling adjustments that are built into the Boerboel Power Opener are used only to fine tune adjustments and not as a primary leveling system. Incorrect leveling installation will cause excess wear and lead to future problems.

The opener distance from the gate post can be adjusted using a 13mm wrench on the mounting bracket. This allows adjustments to the in and out distance from the mounting bracket and the gate post.

The openers swing range and interaction with a second gate is adjusted using the tension lever on the bottom of the opener.

Tip: To eliminate "wobble or a not secure connection" when the dove tail is connected to the main body of the opener make sure to tighten the nut on the back of the tension lever but be careful not to over-tighten or the tension bracket will snap.

The Boerboel Opener and gate(s) can be electronically programmed to customize the gate application. The electronic programming occurs in the "set-up" phase while depressing the "Select" and "Setting" buttons found in the electronics enclosure (top of the opener).

Primary Gate Designation - for dual gate operations a primary gate is selected (one closest to the power source and with the easiest access to the top and bottom of the opener) and the second gate is designated as the "secondary" opener.

Swing Direction – most gates open inward on entry and outward on exit, however this feature allows the user to determine direction of the swing and communicates to the wireless "key fob" which has an open and close button. The opener(s) must be set accurately to accommodate the "auto-close" feature and other features of the opener (s) will work in reverse causing frustration.

Open and Close Sequence – this allows the gates (for use with two openers) to open sequentially (both gates open together or simultaneously) or non-sequentially (one gate opens first and the second gate is delayed, and reversed when closing).

Tip: Many dual gates may have a "flap" or positive stop on one gate. The gate with the positive stop/flap needs to open second but close first.

The Boerboel Opener and gate(s) can be further customized by adjusting the screws found in the electronics enclosure (top of the opener).

Auto Close Feature – the Boerboel Opener(s) have an auto close mechanism that adjusts the timing on the gate closure. The Auto Close Feature can be set to the off position and adjusted from 15 -120 seconds delay by carefully using a tiny screwdriver.

Sensitivity - The Boerboel Opener (s) have an auto-stop programmed that will halt the gate movement when pressure is applied to the gate. Depending on the application of your gate this may be necessary to adjust for safety reasons.

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Accessories
For Single & Double Gates

The Boerboel Opener System offers a wide variety of accessories to help customize your gate functionality:

*__Bracket Kits__ – each Boerboel Opener includes a bracket to attach aluminum gates however, farm/chain link and wood/vinyl bracket kits are also available.

*__Solar Panel Kit__ – allows the gate to be powered using solar energy without an electrical outlet.

*__Low Voltage Wire Kit__ – this provides the ability to extend the opener to the electrical outlet and increase the distance of an accessory from the opener power plug, in up to 25' increments. The low voltage wire kit is used with many applications and to install most additional accessories.

*__Post Top Light Kit__ - adds a light to the top of your Boerboel Power Arm to add light to the entrance for walking or driving purposes and allows the user to see the gate working in the dark.

*__Keychain Kits__ – add convenience for additional gate users and includes a car visor mount to keep in vehicles.

*__Keypads__ – a wireless key pad can be used to open your gate from either outside or inside your property. Keypads are commonly installed on the approach of the gate or near the garage/front door. Access can be granted using a primary or secondary code.

*__Push Button Opener__ - acts as a doorbell to open your gate. There is no code required to use this item and it is recommended to keep inside your property to grant access to visitors.

*__Safety Features__ – the Boerboel Opener includes many safety features such as the auto close and the sensitivity setting however, two additional features are available:

   *__Photo Eye Kit__ - is used to prevent the gate from opening or closing on an obstruction; usually a car or other motorist. Most people use a photo eye at the exit of their property and at the entrance of their property.

   *__Power Bolt__ - is used to lock the gate when it is closed. You can use one Power Bolt per system which helps to deter unwanted guests.

*__Exit Wand__ – makes exiting convenient as the wand detects your car approaching and triggers the gate to open. No buttons to push or codes to enter, the gate automatically opens.
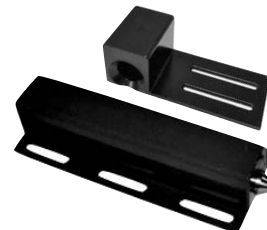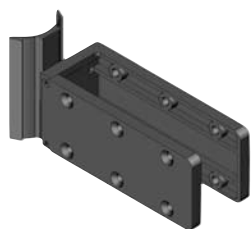
FARM/CHAIN LINK Bracket Kit

PHOTO EYE Kit

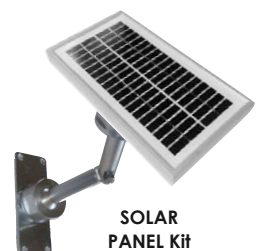**LOW- VOLTAGE WIRE Kit**

BOLT LOCK Kit

WIRELESS KEYPAD Kit

KEYCHAIN TRANSMITTER Kit

WOOD/VINYL Bracket Kit

POST TOP LIGHT Kit

EXIT WAND Kit

PUSH BUTTON OPENER Kit

SOLAR PANEL Kit

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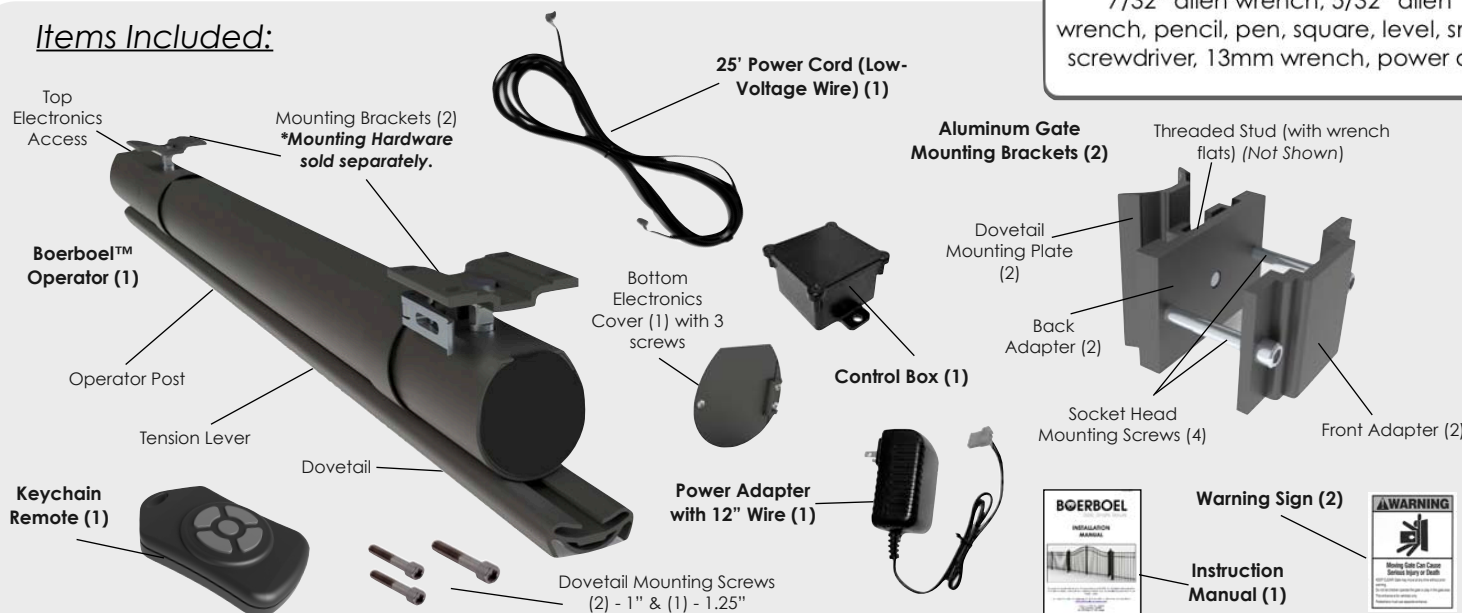## Solid. Simple. Secure.

Assembly Instructions
For Single & Double Gates
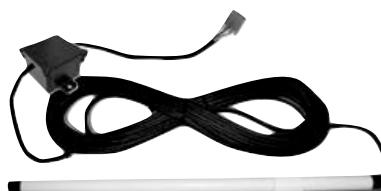
TOOLS NEEDED
7/32" allen wrench, 5/32" allen wrench, pencil, pen, square, level, small screwdriver, 13mm wrench, power drill

Items Included:

Top Electronics Access

Mounting Brackets (2)
*Mounting Hardware sold separately.

25' Power Cord (Low-Voltage Wire) (1)

Aluminum Gate Mounting Brackets (2)

Threaded Stud (with wrench flats) (Not Shown)

Boerboel™ Operator (1)

Dovetail Mounting Plate (2)

Back Adapter (2)

Bottom Electronics Cover (1) with 3 screws

Control Box (1)

Operator Post

Tension Lever

Dovetail

Socket Head Mounting Screws (4)

Front Adapter (2)

Keychain Remote (1)

Power Adapter with 12" Wire (1)

Warning Sign (2)

Instruction Manual (1)

Dovetail Mounting Screws (2) - 1" & (1) - 1.25"

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1 Before you begin...

Make sure you have all of the required tools for your installation. *See "Tools Needed" square above.*

Mounting hardware is required to mount your Boerboel opener to your mounting post. The type of hardware used is dependent upon which type of post you are mounting your Boerboel opener to (wood, aluminum, PVC, etc.) For this reason, **mounting hardware must be purchased separately.**

Your Boerboel opener kit includes gate mounting brackets for use with aluminum gates/fencing. If you are looking to use your Boerboel opener using wood, vinyl, farm or chain link gates/fencing you will need the proper gate mounting brackets to match your gate type. **Boerboel Wood/Vinyl & Boerboel Farm/Chain Link Gate Mounting Bracket Kits are sold separately.**

The Boerboel Operator comes with a 25' Power Cord of Low Voltage Wire. If you intend to connect two Boerboel openers together by use of a hard-wired connection or if you wish to extend the length of wire used for any separately purchased Boerboel accessories, purchase of the Boerboel Low-Voltage Wire Kit may be required.

Be sure to review the Pre-Installation Measurements to the right to ensure you have enough space to install your Boerboel opener.

Pre-Installation Measurements

Prior to installation, you must ensure you have enough room between your mounting post(s) for both your Boerboel opener(s) and your gate(s). The space between your mounting post and your gate (which the Boerboel opener will occupy), is **6.75"** regardless of which style gate mounting brackets are used. **(1a)**

Each gate mounting bracket style *(aluminum, wood/vinyl or farm/chain link)* offers up to **1"** of adjustability, so you want to make sure you have **between 6.75" and 7.75"** available space to ensure a proper Boerboel opener installation. Use a 13mm wrench to adjust.

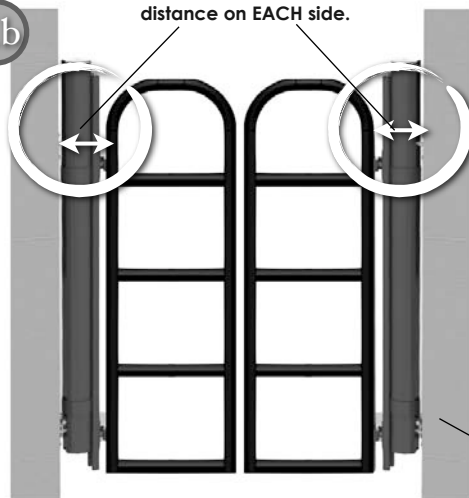For dual gate installations, this space must be made available for each opener (13.5" min - 15.5" max). **(1b)**

1a
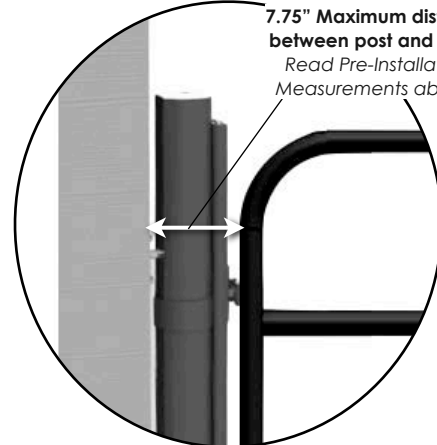Allow 6.75" Minimum distance for operator & brackets.

1b
Allow 6.75" Minimum distance on EACH side.

Allow 6.75" Minimum - 7.75" Maximum distance between post and gate. *Read Pre-Installation Measurements above.*

Mounting Post(s) sold separately.

5

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2

Attaching The Dovetail & Bottom Cover

Before securing the Boerboel Opener to the post, attach the dovetail to the saddle. Use the 3 screws provided (2a & 2b). Secure the top using the two 1" allen head screws to the upper and lower holes located on the upper saddle (the center hole remains unused). Next, secure the larger 1.25" allen head screw to the center hole of the lower saddle. *The larger screw must be used on the lower saddle for proper attachment.*

Using a Phillips head screw driver, secure the bottom cover with the 3 screws to protect the electronics and wiring (2c). The bottom cover has a hinge opening that will allow access for installation to the electronic ports during and after installation.
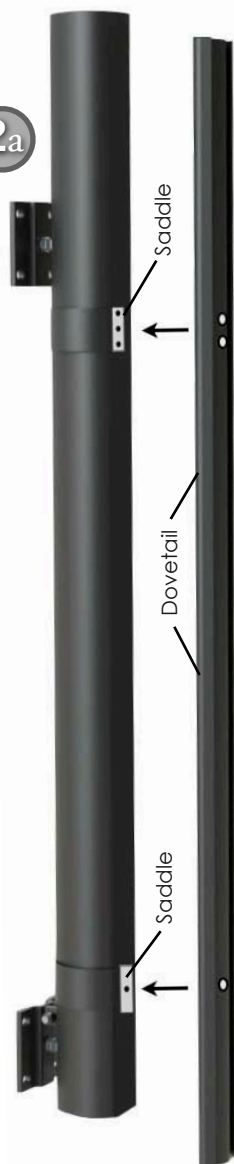
3

Mounting Your Operator

Mount your Boerboel opener using mounting hardware *(not included)* appropriate for your post material. Make sure that the mounting post is plumb before mounting your Boerboel opener. Allow concrete to cure following the manufacturers package instructions, prior to mounting the Boerboel opener to the post. Be sure that you have your mounting post secure in the ground, and your dovetail secured to the Boerboel opener before mounting opener to post. **Note: If you are mounting your opener to a vinyl post, be sure to install a wooden post inside the vinyl sleeve to ensure your post will be robust enough to support your Boerboel opener and gate.*
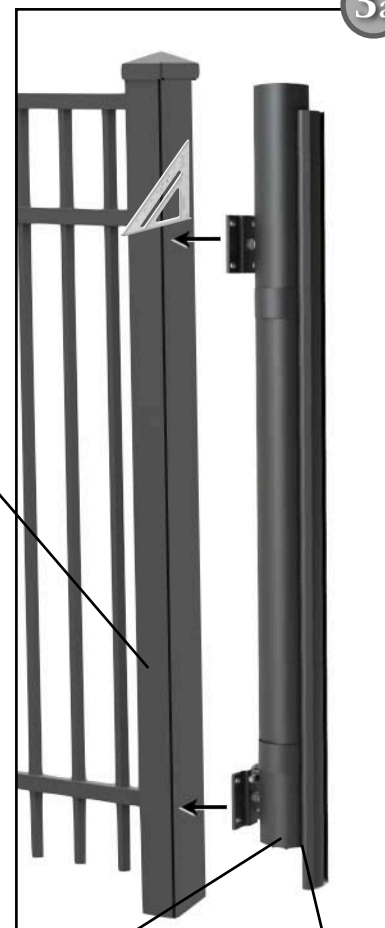
Steps:

1. Hold the Boerboel opener up to your mounting post to ensure there is enough surface space to secure both the top and bottom mounting bracket to the post. Use a square to make sure both the top and bottom mounting bracket are square to the post and determine their proper placement on the post. **Be sure to leave enough room from the ground to the bottom of the Boerboel opener to allow access to the bottom electronics enclosure. A minimum of 2" between the bottom of the dovetail to the ground is recommended.** *(3a)*
2. Once you have determined the best locations for your upper and lower mounting brackets, mark your drill holes on the mounting post using a pencil or a sharpie. *(3b)*
3. At a slight angle, pre-drill all eight holes before applying your mounting hardware. *(3c)* **Mounting hardware is dependent upon the material of the mounting post.**
4. Secure the Boerboel opener to the mounting post using the correct hardware. Be sure to use a level during this step to ensure your Boerboel opener will be level on the post. *(3d)*
5. The Boerboel opener includes a manual tension (3e) that allows for the fine tuning in alignment, 90 degree adjustments, and manual operation (see gate adjustments section, later in this manual).

2a

Saddle

Attaches by use of two 1" allen head screws. *(Included)*

Dovetail

Saddle

Attaches by use of one 1.25" allen head screw. *(Included)*

2b

Use a 5/32" allen head wrench to attach.

2c

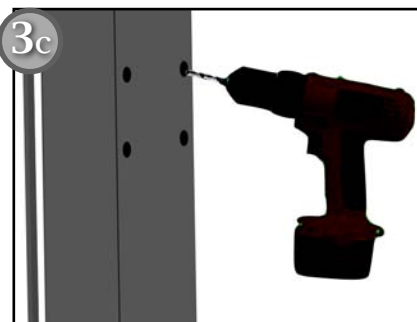**3a**

Mounting Post *(Sold separately)*

Electronics Enclosure

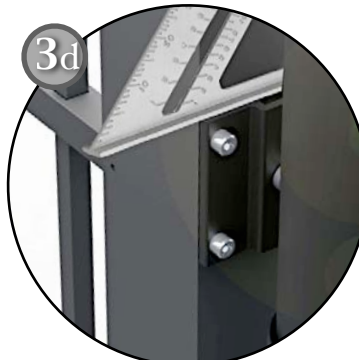Allow a minimum of 2" from bottom of dovetail to the ground.

3b

3c

3d

3e

Tension Lever

Lift lever UP to loosen.

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Dovetail Mounting Plate
Back Adapter
Front Adapter
Socket Head Mounting Screws
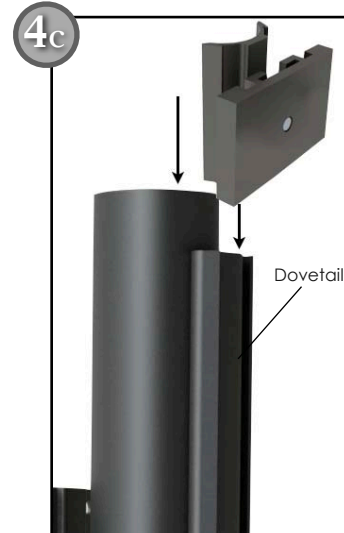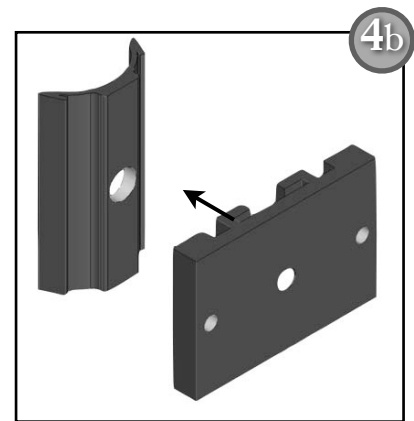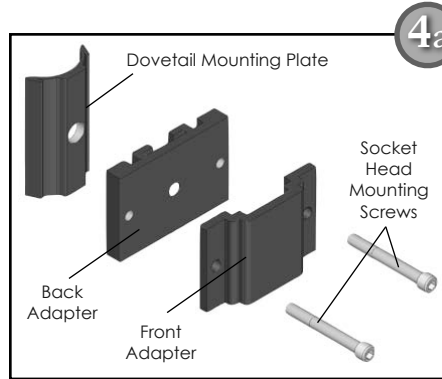
4 Attaching Your Aluminum Brackets

Figure 4a identifies all parts included with your Boerboel opener, which are required to assemble your aluminum gate mounting brackets.

First, connect the Dovetail Mounting Plates onto the backside of the Back Adapter Portion of your brackets by use of the Threaded Stud. (4b)

To attach your aluminum gate brackets, simply insert the dovetail mounting plate into the dovetail portion of your Boerboel opener. (4c)

Slide the dovetail adapter along the dovetail track until bracket is in the desired position. Once your bracket is in the desired position, simply tighten the bracket in place by tightening the threaded stud using a 13mm wrench. (4d)

Repeat these steps for the second bracket.

Dovetail

13mm Wrench

Note: Wood/Vinyl Bracket & Farm/Chain Link Gate Bracket Kits are sold separately.

5 Mounting Your Gate(s)

To mount your gate(s), support the mounting side of your gate against the back adapters of your aluminum gate brackets and secure in place by attaching the front adapters by use of four socket head mounting screws *(two per bracket)* using a 7/32" allen wrench. Once your gate is in place, make sure the four socket head mounting screws are securely tightened to keep your gate from slipping. (5)
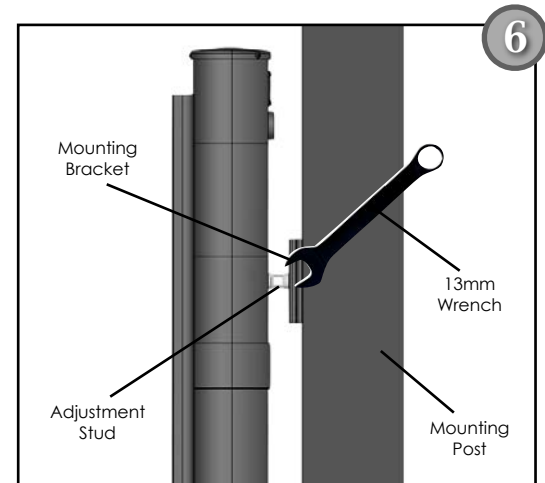

Front Adapter
Back Adapter
Socket Head Mounting Screw
7/32" allen wrench needed
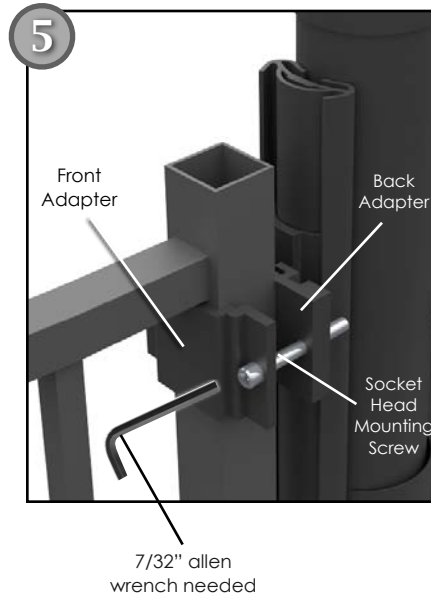
6 Leveling Your Gate(s)

To level your gates, simply adjust your Boerboel opener in and out from the post by rotating the adjustment studs of the top and/or bottom Mounting Brackets using a 13mm wrench. Extending the top bracket outward will lower the gate, while extending the bottom bracket outward will raise the gate. Adjust accordingly.

*Note: The MAXIMUM amount of adjustment is 1 3/4" for each adjustment stud. Over-extending can result in the opener detaching from the Mounting Brackets.
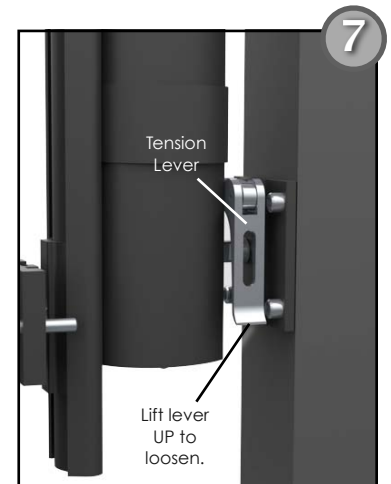

Mounting Bracket
Adjustment Stud
13mm Wrench
Mounting Post
The MAX adjustment per Adjustment Stud is 1 3/4". *Do not over-extend.*

7 Manual Operation

After configuring your gates, you can use the tension lever to make fine adjustments if they are not perfectly aligned once completing the first open/close cycle.

In the case of an emergency, loss of power or to permanently leave your gate open, the tension leveler can be unlocked and the gate can be adjusted to the open position. Remember to lock the tension lever to ensure that it does not swing with the wind or move with gravity.

Tip: To eliminate "wobble or a not secure connection" when the dove tail is connected to the main body of the opener make sure to tighten the nut on the back of the tension lever but be careful not to over tighten or the tension bracket will snap.

Tension Lever
Lift lever UP to loosen.

7

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(8) Aligning Your Gate(s)

Once your gate(s) have been mounted, you can adjust their position on your Boerboel opener(s) by loosening the threaded studs on both the top and bottom aluminum gate mounting brackets using a 13mm wrench and adjust your gate up and down the dovetail accordingly.

Once your gate and brackets are in the desired location on your opener, simply re-tighten the threaded studs. *(8)*
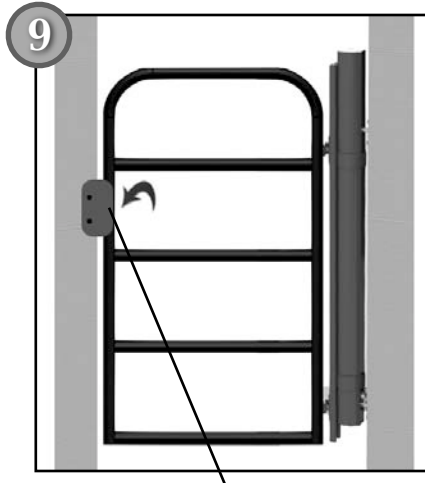
Note: This procedure will easily allow you to adjust dual gates so they are perfectly aligned with each other.
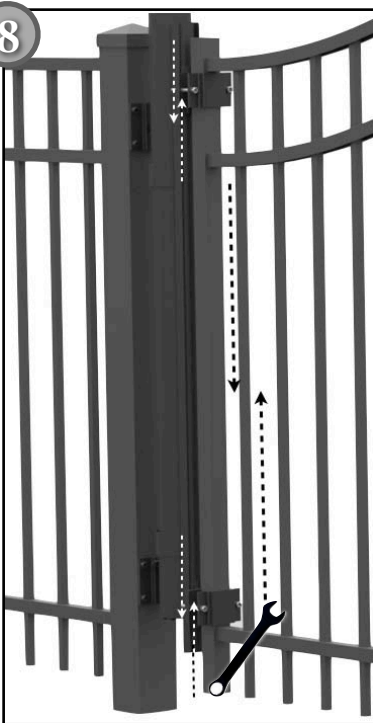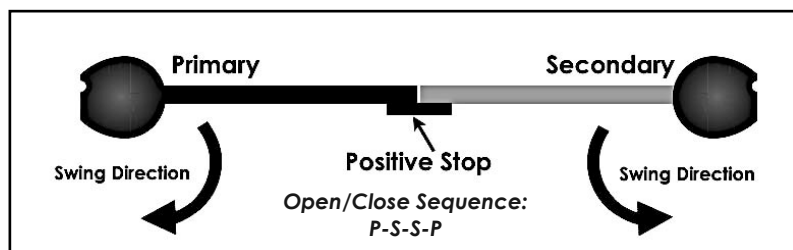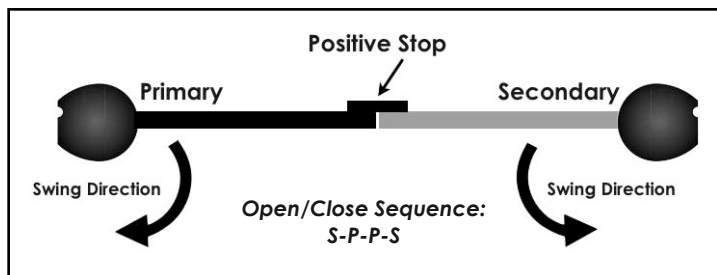
(9) Positive Stops

When determining the swing direction for your gates, it is also a good time to consider the placement of a positive stop to keep your gates closing completely within alignment of each other every time they close. **For single gate installations,** a wooden block or a metal plate is commonly attached to the mounting post at the opposite end of the gate from the Boerboel opener. Over rotating of the gate opener into the positive stop is recommended for a snug close. To apply the over rotation, simply loosen the tension lever with the gate in the open position and adjust it towards the closed position 3-5 degrees. Re-tighten the tension lever and cycle the gates to close. If the over-rotation is not satisfactory, simply loosen the tension lever and make any necessary adjustments. **For dual gate installations,** the positive stop must be placed on one of the two gates. The gate with the positive stop attached to it must then be over-rotated 3-5 degrees so that it closes snugly against the opposite gate. This procedure is required on dual gate installations on which the Boerboel Bolt Lock Kit is being used. The positive stop ensures that the bolt lock and the bolt lock receiver line up perfectly during every closing of your gates.

Over-rotate gate 3-5 degrees so that it closes snugly against the positive stop.

Positive Stop
Primary   Secondary
Swing Direction   Swing Direction
Open/Close Sequence:
S-P-P-S

Primary   Secondary
Swing Direction   Swing Direction
Positive Stop
Open/Close Sequence:
P-S-S-P

(10) Mounting Your Safety Placards

Two safety placards are included with your Boerboel opener kit. Be sure to mount one placard to both sides of your gate. (10)

Failure to post these important warnings can result in damage to your gate and/or the gate opener as well as potential danger to pedestrians, children, pets, vehicles and other objects.
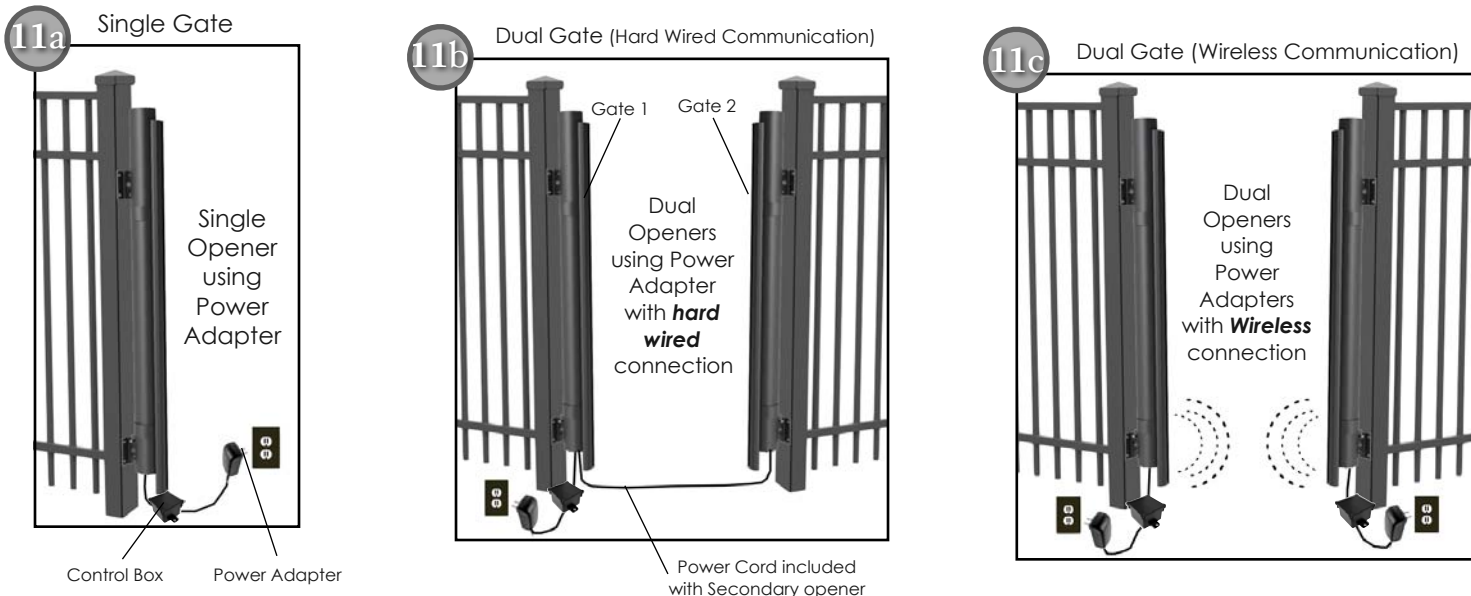
11 Choose Gate Application

Select the following options for using your Boerboel opener which include the type, power sources and communication options (when 2 gates are used). The Boerboel opener can support a gate weight of 75 pounds, a gate length up to 8' and a gate height greater than 36". The power source can be substituted for a solar panel *(sold separately)*. Follow the instructions carefully as the settings and options differ for the intended use:

11a Single Gate

Single Opener using Power Adapter

Control Box   Power Adapter

11b Dual Gate (Hard Wired Communication)

Gate 1   Gate 2

Dual Openers using Power Adapter with *hard wired* connection

Power Cord included with Secondary opener

11c Dual Gate (Wireless Communication)

Dual Openers using Power Adapters with *Wireless* connection

12 Connecting the Power Source

The Boerboel opener(s) use the enclosed power source(s) or can use solar power with the **Boerboel Solar Panel Kit** *(sold separately)*. One power source is included with every Boerboel opener, which contains the 25' power cord, the control box and power adapter, all pre-assembled for your convenience. (12a)

One power plug is included with every Boerboel opener, which contains the 25' power cord, the control box and power adapter, all pre-assembled for your convenience (12a), and solar powered panel kits may be purchased separately.

For dual opener installations, only one power source is necessary when the two openers are hard wired to each other. For dual operator installations in a wireless configuration, each opener will need to be powered by it's own power source (or solar panel). Dual opener installations using solar power will require the use of two or more solar panels when used in a wireless configuration. Up to three solar panels may be used per opener. *See Page 10 for solar power configurations.*
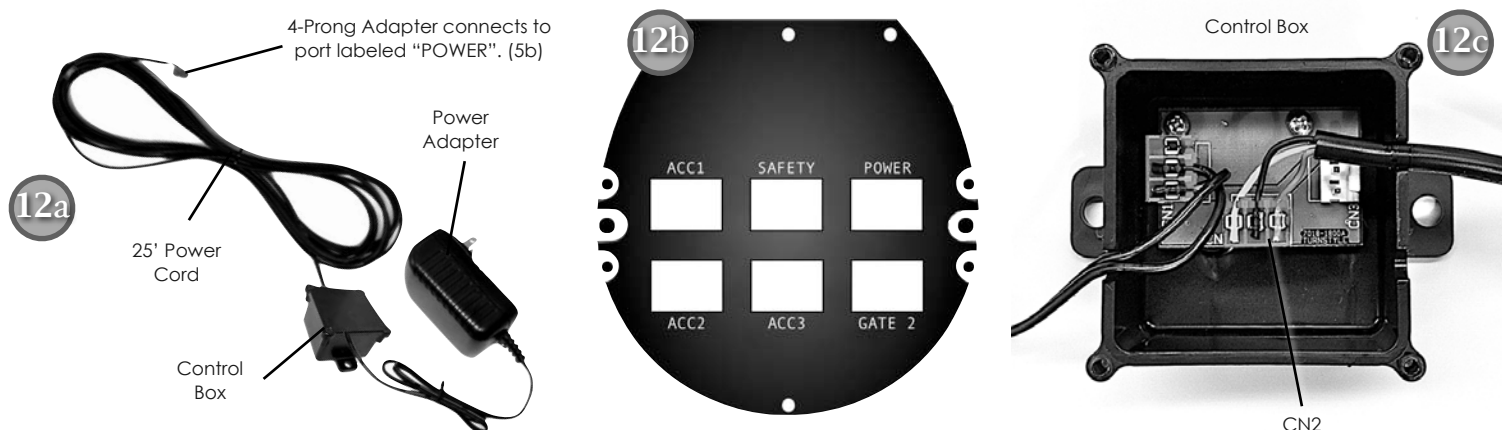
The wiring diagram (12b) identify the ports located inside the bottom of the Boerboel opener. Always make sure the power switch, located at the top of the opener is in the off position as a safety precaution (14a).

For Single Gate Opener, simply connect the 4-prong adapter on the power or solar panel cord to the port labeled "Power" at the bottom of the opener. For dual gates one arm must be identified as the primary or the main controller between the two arms. The default setting for the Boerboel opener identifies all openers as primary, so the secondary gate will require adjustment which is detailed later.

For dual gates, a secondary opener can be connected either using wires (hard wired) or set up to communicate wirelessly.

WIRED (HARD WIRED) COMMUNICATION: Apply power to the primary opener by connecting the 4-prong adapter on the power or solar panel cord to the port labeled "Power" at the bottom of the opener (12b). Next, to connect or create a communications link wire, remove the control box cover and unplug the 3-prong adapter from the "CN2" port (12c). Using the wire without the plug, connect the 3-prong wire into the primary opener's electronic port labeled "Gate 2". The other end of the wire or the 4-prong adapter plugs into the secondary opener in the port called "Power".

WIRELESS COMMUNICATION: Apply power to both the primary and secondary opener by connecting the 4-prong adapter on each of the power or solar panel cords to the port labeled "Power" at the bottom of each opener (12b). The openers will need to be configured (later in this manual) to establish a wireless connection where both openers work in tandem.
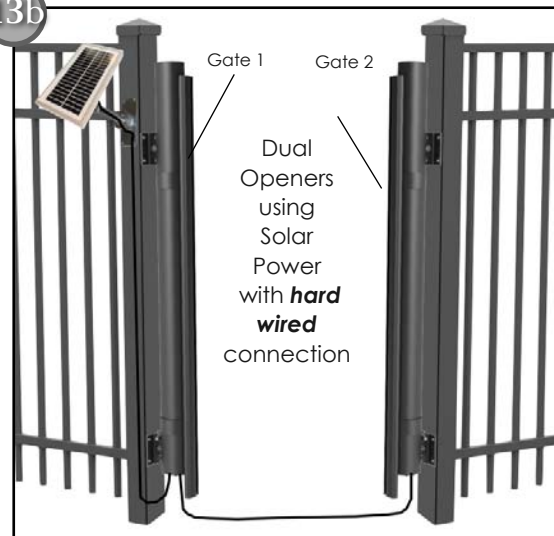
12a

4-Prong Adapter connects to port labeled "POWER". (5b)

Power Adapter

25' Power Cord

Control Box

12b

| ACC1 | SAFETY | POWER |
| ACC2 | ACC3 | GATE 2 |

12c Control Box

CN2

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(13) **Solar Panel Configuration** *(Optional)*

Solar power is an alternate option for powering your Boerboel opener. Solar is a great energy saving alternative and is ideal for gate installations in remote areas where conventional 110 power is not available or easily accessible. The Boerboel Solar Panel Kit is sold separately and depending on your home's location, may require more than one unit per opener to power Boerboel opener. The kit contains one 5 watt solar panel with battery backup and adjustable mounting bracket for easy installation and maximum sun exposure. Solar power can be used with either a wired or wireless comminucation option (requires at least one solar panel per opener). For installation, please refer to the instructions included with the Boerboel Solar Panel Kit.

Figures 13a & 13b demonstrate solar power configurations. *Solar Panel Kits sold separately.*

5 Watt Solar Panel

Adjustable Solar Panel Mounting Bracket

(13a) Single Opener using Solar Power

(13b) Gate 1   Gate 2

Dual Openers using Solar Power with *hard wired* connection

(14) **Operator Setup & Programming**

As explained earlier in this manual, the Boerboel Opener has many unique features and options which must be set up and programmed to unique applications. Located at the top of the opener is an electronic enclosure that includes indicator lights, programming buttons and adjustment screws. To access this panel remove the top cover with a screw driver (14a). Once the cap is removed the inner electronics enclosure is accessible (14b) and to change the programming the unit must enter "Set-Up" Mode.

To program the Boerboel Opener, the "select" and "setting" buttons will need to be depressed in a series of steps with the tip of a pen. The "Setting" button indicates the programming options available. Both the buttons have corresponding LED indicator lights to identify the programmable feature. For instance, if the "select" button is depressed and the light is green, by depressing the "setting" button the gate's swing direction will change. The default is "red" shown on the LED light indicator and is a clockwise direction, by changing the light from "red" to "green" the gate's direction will change to counter-clockwise.

To access the programming options, the unit must enter "Set-Up" mode and after 2 minutes of inactivity (no buttons pressed), the opener's operator will exit "Set-Up" mode and return to normal operations.

The auto close timing and the gate sensitivity are adjusted, carefully using the small screws in between the buttons. A SD Memory card slot is available for future upgrades to the programming and the lighting wires are located just above for ease of low-voltage post cap light installation.
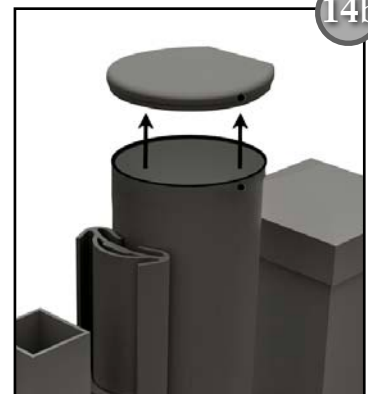
The factory default settings are shown on the following page.

(14a) On/Off Switch
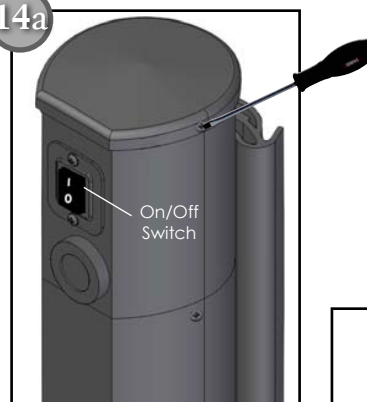
(I indicates "on" and O indicates "off")

(14b)

Programming Button Settings, Factory Defaults

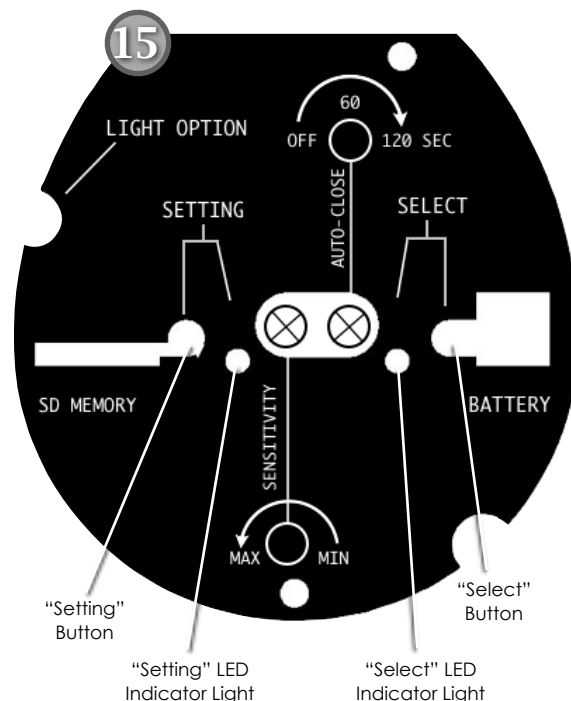|	"Select" LED Light	"Setting" LED Light & Factory Default
Primary Opener	Red	Green & Primary
Gate Swing Direction (Primary)	Green	Red & Clockwise
Gate Swing Direction (Secondary)	Green	Green & Counter-Clockwise
Open / Close Sequencing	Flashing Green	Red & Simultaneous
Wired vs. Wireless Communication (2nd Gate)	Flashing Yellow	Green & Wired
Learning Mode for Wireless Accessories	Flash Red, Green and Yellow	Light turns green when a wireless device is learned. Light returns to red to pair another device.
	Default Screw Settings	
Auto Close Feature	15 to 120 seconds or disabled if rotated fully counter-clockwise.	
Sensitivity	Factory default set at 50% sensitivity. Rotate clockwise to decrease, counter-clockwise to increase sensitivity.	

Tip: For installing / programming a single gate, the manufacturing default is set to primary. For dual gates, one must be set as primary and the other gate as secondary.

⑮ **Entering Setup Mode**

The "Set-Up" mode allows for users to make programming changes to the Boerboel Opener unique to a gate(s) application. The "Set-Up" mode will time out after 2 minutes of inactivity (no buttons pressed) and return to normal operations. To make initial and future programming changes, it is necessary for the unit to enter "Set-Up" mode. Remove the top electronics cap to expose the electronics enclosure, and make sure the Boerboel Opener is set in the off position (14a).

Figure 15 identifies the inside of the top electronics enclosure. While gently depressing the select button with a pen on the inside of the electronics enclosure, turn the power switch to "on" or up. The unit will flash approximately 20 times and at at flash 21, the setting LED indicator will change from red to yellow with a beep sounding. The setting LED indicator light will flash red until the select button is released after the beep. Release the button and the unit is in "Set-Up" Mode.

⑮

LIGHT OPTION

60
OFF — 120 SEC
AUTO-CLOSE

SETTING   SELECT

SD MEMORY

SENSITIVITY
MAX — MIN

BATTERY

"Setting" Button

"Select" Button

"Setting" LED Indicator Light

"Select" LED Indicator Light

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(16) Programming

Select your Boerboel Opener use (single opener, double opener wired, or double opener wireless) and enter "Set-Up" mode explained in step 15. ***See Figure 16b for "Setting" & "Select" Button and Light Identification.*** Refer to the product feature section in this manual for detailed information on each feature.

A - SINGLE OPENER:

1. <u>Keychain Remote / Keypad Learn Mode</u> – after entering "Set-Up" mode, press the "Select" button so that the "Select" LED light "cycles red, green and yellow".
a. Press and hold the "Setting" button for 5 seconds, the setting light will turn and remain red while in learn mode.
b. Within 1 minute, press the "top" or "left" open button on each keychain transmitter to be learned or programmed. Wireless keypads will require a valid code for programming. Please refer to the instructions included with the Wireless Keypad Kit.
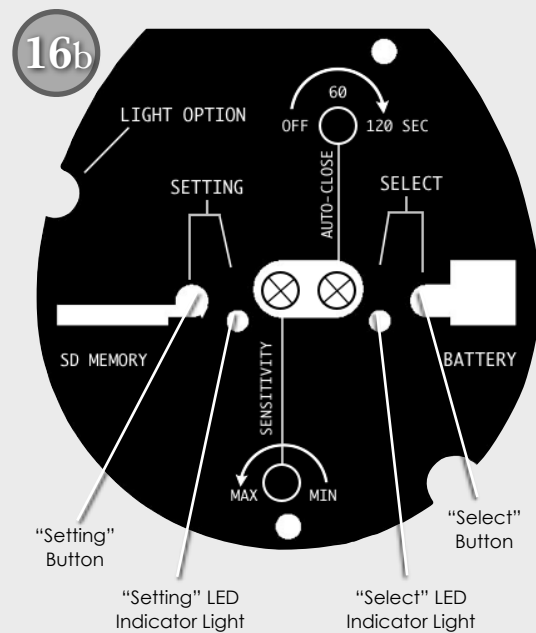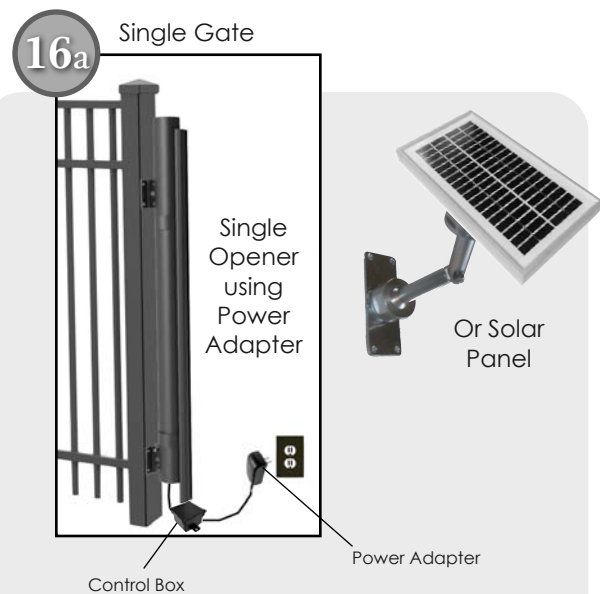
> i. The "Setting" LED light will beep and flash green when any wireless device is learned.

> ii. Enter up to 6 keychain remotes or keypads during the 1 minute learning window. After 1 minute, all lights turn off and setup mode is exited.

> ii. The key chain remote can be programmed to open and close up to 2 sets of Boerboel Openers. The top "Open" button and the bottom "Close" button will control one single or dual gate system, while the left and the right will control a second set. While learning or programming the remote remember to press the correct set of corresponding buttons, always using the "Open" button. The center "Stop" button will stop any opener and will send the stop command to the most recently opened or closed opener. *(16c)*

Tip: Any new wireless device that is learned during a later programming event will erase all previous devices and must be re-programmed. To save time, program or learn all wireless accessories at one time. The connection between the primary and secondary opener will not reset when devices are trained.
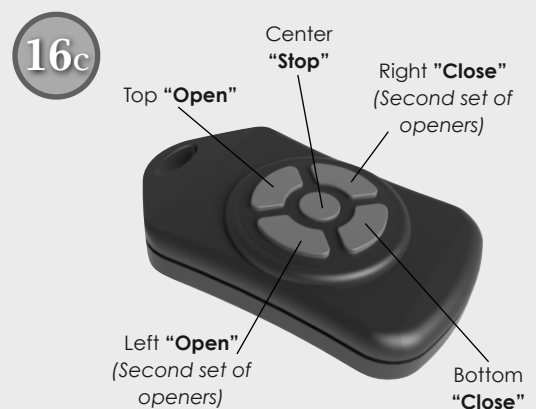
2. <u>Gate Swing Direction</u> - To program your desired gate swing direction, depress the "Select" button until the "Select" LED light is green. Depress the "Setting" button so that the "Setting" light is red for a clockwise rotation or green for a counter-clockwise rotation based on your gate swing preference. **Note: All openers are pre-set to swing clockwise. If you decide to change the swing direction of your opener, you must also loosen the tension lever and rotate your gate 90 degree in the new direction and re-tighten the tension lever.**

3. <u>Auto-Close Time</u> - Your Boerboel opener has a built in Auto-Close Feature which has a factory default of one minute. Located inside the top electronics enclosure of your operator adjust the orange dial marked auto-close by carefully using a small screw driver. Rotating the "Auto-Close dial clockwise will increase the amount of time your Boerboel opener will wait before automatically closing. To decrease the time, rotate it counter-clockwise. Rotating to full counter-clockwise position will disable the automatic close feature all together.

4. <u>Sensitivity Adjustment</u> - Your Boerboel opener has a built in Sensitivity Feature that will disable movement when the gate encounters an obstruction. Located inside the top electronics enclosure of your operator adjust the orange dial marked sensitivity by carefully using a small screw driver. Rotating the Sensitivity dial clockwise will decrease the sensitivity which is sensed when your gate encounters an obstruction while in the opening or closing cycle. Rotating counter-clockwise will increase the sensitivity.

16a Single Gate

Single Opener using Power Adapter

Or Solar Panel

Power Adapter

Control Box

16b

LIGHT OPTION

60
OFF — 120 SEC
AUTO-CLOSE

SETTING

SELECT

SD MEMORY

SENSITIVITY
MAX — MIN

BATTERY

"Setting" Button

"Select" Button

"Setting" LED Indicator Light

"Select" LED Indicator Light

Keychain Remote Button Functions

16c

Center "Stop"

Top "Open"

Right "Close" *(Second set of openers)*

Left "Open" *(Second set of openers)*

Bottom "Close"

12

B - DUAL OPENER (WIRED):

1. Verify the <u>Primary</u> Opener the "Select" LED light is red. Press the "Setting" button to change the "Setting" light to green. *See Figure 16b for "Setting" & "Select" Button and Light Identification.* **Press "Select" button to advance to next menu function.**

2. Dual Gate Mode: - "Select" LED light is set to illuminate Flashing Yellow. Press the "Setting" button to change the "Setting" light to green.

3. Set the <u>Secondary</u> Opener "Select" LED light to illuminate red. Press the "Setting" button to change the "Setting" light to red and make sure the dual gate mode is set in step 2 above.

4. <u>Keychain Remote / Keypad Learn Mode (set the Primary Opener only)</u> - To program your device, the Primary "Select" LED light needs to be set to "cycling red, green and yellow". Press and hold the "Setting" button for 5 seconds, the setting button will flash red. Within 1 minute, press any button on each wireless device that will be programmed. The "Setting" LED light will beep and flash green when keychain remote is learned. Enter up to 6 keychain remotes or keypads during the 1 minute learning window. After 1 minute, all lights turn off and setup mode is exited. *See Figure 4 for Keychain Button function identification.* **Note:** if any new device is learned during a later programming, all previous devices are erased and must be re-programmed at the same time as the new device.
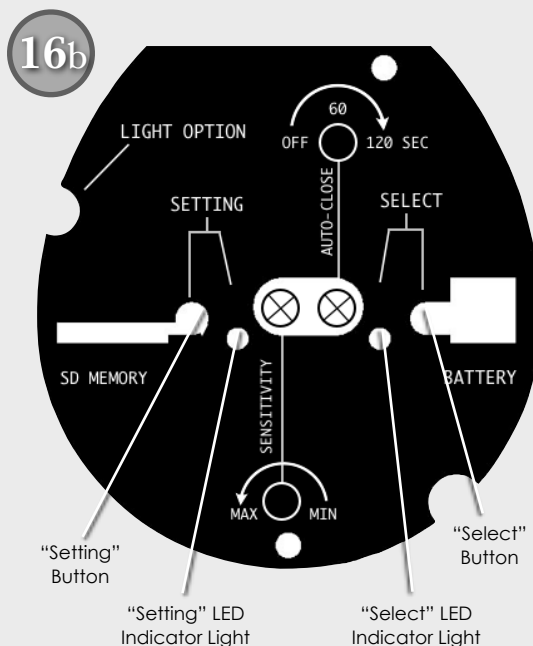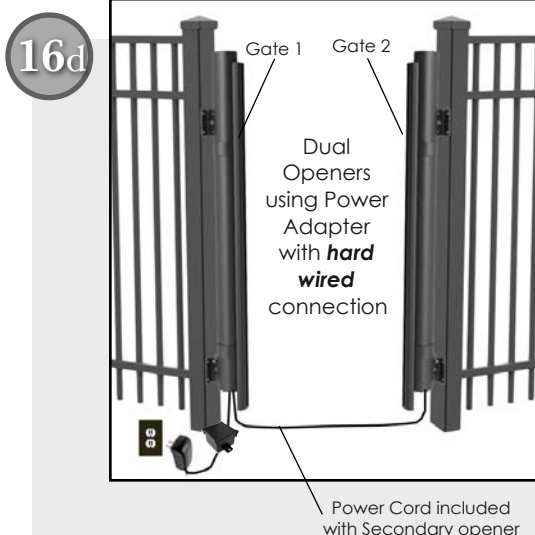
5. <u>Gate Swing Direction (set both the Primary and Secondary Opener)</u> - To program your desired gate swing direction, the Primary "Select" LED light needs to be set to green. The "Setting" light will be red if setting opener to swing clockwise (default setting), or green if setting opener to swing counter-clockwise. Press "Setting" button to select red or green. The Secondary "Select" LED light needs to be set to green. The "Setting" light will be red if setting opener to swing clockwise or green if setting opener to swing counter-clockwise (default setting). Press "Setting" button to select red or green. **Note: All openers are pre-set to swing clockwise. If you decide to change the swing direction of your opener, you must also loosen the tension lever and rotate your gate 90 degree in the new direction and re-tighten the tension lever.**

6. <u>Auto-Close Time (set the Primary Opener only)</u> - The Boerboel opener has a built in Auto-Close Feature. Located inside the top electronics enclosure of your operator, you will notice a small orange dial marked "auto-close" which can be rotated with a small Phillips head screwdriver. The factory default Auto-Close time is set to approximately 1 minute. Rotating the "Auto-Close dial clockwise will increase the amount of time your Boerboel opener will wait before automatically closing. To decrease the time, rotate it counter-clockwise. Rotating to full counter-clockwise position will disable the automatic close feature all together.
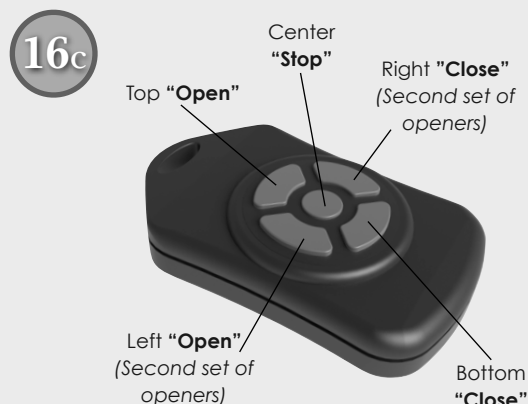
7. <u>Sensitivity Adjustment (set both the Primary and Secondary Opener)</u> - The Boerboel opener has a built in Sensitivity Feature. Located inside the top electronics enclosure of your operator, you will notice a small orange dial marked "sensitivity" which can be rotated with a small Phillips head screwdriver. Rotating the Sensitivity dial clockwise will decrease the sensitivity which is sensed when your gate encounters an obstruction while in the opening or closing cycle. Rotating counter-clockwise will increase the sensitivity.

8. <u>Open - Close Sequence (set the Primary Opener only)</u> - The Boerboel opener allows you to set the sequence in which the gates open. The Select" LED light needs to be set to Flashing Green in any case. If you want the gates to open and close at the same time, the "Setting" LED Light will be set to red = Simultaneous (default setting). If you want the primary gate to open first and the secondary gate to follow a few seconds after. The close sequence will result in the secondary gate closing first and the primary gate following a few seconds after. The "Setting" LED Light will be set to green = Sequential with Primary Overlap. If you want the secondary gate to open first and the primary gate to follow a few seconds after. The close sequence will result in the primary gate closing first and the secondary gate following a few seconds after. The "Setting" LED Light will be set to yellow = Sequential with Secondary Overlap.

Dual Gate (Hard Wired Communication)

Gate 1   Gate 2

Dual Openers using Power Adapter with *hard wired* connection

Power Cord included with Secondary opener

LIGHT OPTION

60
OFF   120 SEC
AUTO-CLOSE

SETTING   SELECT

SD MEMORY   BATTERY

SENSITIVITY

MAX   MIN

"Setting" Button

"Setting" LED Indicator Light

"Select" Button

"Select" LED Indicator Light

Keychain Remote Button Functions

Center "Stop"

Top "Open"

Right "Close" *(Second set of openers)*

Left "Open" *(Second set of openers)*

Bottom "Close"

13

C - DUAL OPENER (WIRELESS):

1. Verify the Primary Opener the "Select" LED light is red. The "Setting" LED light needs to be set to illuminate green. **Press "Select" button to advance to next menu function.**

2. Dual Gate Mode Primary Opener: "Select" LED light is set to illuminate Flashing Yellow. The "Setting" LED light needs to be set to illuminate red.

3. Set the Secondary Opener "Select" LED light to illuminate red. The "Setting" LED light needs to be set to illuminate red.

4. Dual Gate Mode Secondary Opener: "Select" LED light is set to illuminate Flashing Yellow. The "Setting" LED light needs to be set to illuminate red.

5. Primary/Secondary Opener Pairing Mode: set both the Primary and Secondary Opener – To program your device, the Secondary "Select" LED light needs to be set to "cycling red, green and yellow". Press and hold the "Setting" button for 5 seconds until it turns red. You now have 2 minutes to enter setup mode on the secondary unit, the Secondary "Select" LED light needs to be set to "cycling red, green and yellow". Press and hold the "Setting" button for 5 seconds, the Primary opener will beep once followed by the Secondary opener beep. *See step 4 under "dual opener, wired" to learn wireless devices (keychain and keypad).* *Note: if any new device is learned during a later programming, all previous devices are erased and must be re-programmed at the same time as the new device.**

6. Gate Swing Direction (set both the Primary and Secondary Opener) - Before Programming, manually unlock the both openers (10a) and move gates to desired open position (10b). To program your desired gate swing direction, the Primary "Select" LED light needs to be set to green. The "Setting" light will be red if setting opener to swing clockwise (default setting), or green if setting opener to swing counter-clockwise. Press "Setting" button to select red or green. The Secondary "Select" LED light needs to be set to green. The "Setting" light will be red if setting opener to swing clockwise or green if setting opener to swing counter-clockwise (default setting). Press "Setting" button to select red or green. **Note: All openers are pre-set to swing clockwise. If you decide to change the swing direction of your opener, you must also loosen the tension lever and rotate your gate 90 degree in the new direction and re-tighten the tension lever.**

7. Auto-Close Time (set the Primary Opener only) –The Boerboel opener has a built in Auto-Close Feature. Located inside the top electronics enclosure of your operator (Show illustration), you will notice a small orange dial marked "auto-close" which can be rotated with a small Phillips head screwdriver. The factory default Auto-Close time is set to approximately 1 minute. Rotating the "Auto-Close dial clockwise will increase the amount of time your Boerboel opener will wait before automatically closing. To decrease the time, rotate it counter-clockwise. Rotating to full counter-clockwise position will disable the automatic close feature all together.

8. Sensitivity Adjustment (set both the Primary and Secondary Opener)- The Boerboel opener has a built in Sensitivity Feature. Located inside the top electronics enclosure of your operator (Show illustration), you will notice a small orange dial marked "sensitivity" which can be rotated with a small Phillips head screwdriver. Rotating the Sensitivity dial clockwise will decrease the sensitivity which is sensed when your gate encounters an obstruction while in the opening or closing cycle. Rotating counter-clockwise will increase the sensitivity.

9. Open–Close Sequence (set the Primary Opener only) – The Boerboel opener allows you to set the sequence in which the gates open. The Select" LED light needs to be set to Flashing Green in any case. If you want the gates to open and close at the same time, the "Setting" LED Light will be set to red = Simultaneous (default setting). If you want the primary gate to open first and the secondary gate to follow a few seconds after. The close sequence will result in the secondary gate closing first and the primary gate following a few seconds after. The "Setting" LED Light will be set to green = Sequential with Primary Overlap. If you want the secondary gate to open first and the primary gate to follow a few seconds after. The close sequence will result in the primary gate closing first and the secondary gate following a few seconds after. The "Setting" LED Light will be set to yellow = Sequential with Secondary Overlap.
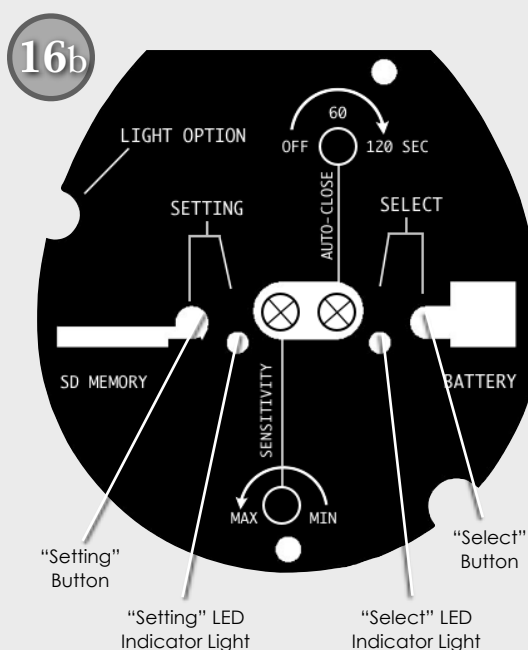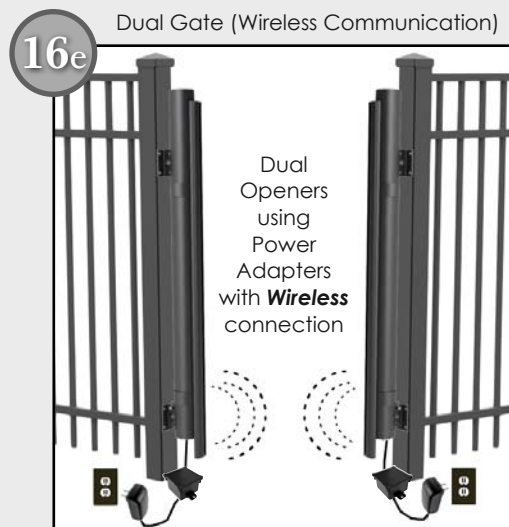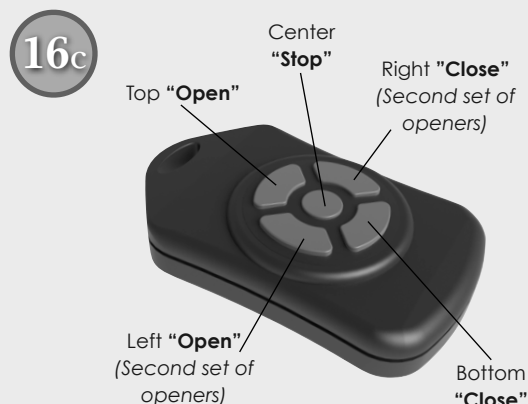
16e Dual Gate (Wireless Communication)

Dual Openers using Power Adapters with *Wireless* connection

16b

LIGHT OPTION
60
OFF AUTO-CLOSE 120 SEC
SETTING SELECT
SD MEMORY
SENSITIVITY
MAX MIN
BATTERY

"Setting" Button
"Select" Button
"Setting" LED Indicator Light
"Select" LED Indicator Light

Keychain Remote Button Functions

16c
Center **"Stop"**
Top **"Open"**
Right **"Close"** *(Second set of openers)*
Left **"Open"** *(Second set of openers)*
Bottom **"Close"**

TO ACTIVATE PROGRAMMING, BOTH UNITS MUST BE IN SET-UP MODE:

SETUP MENU FOR PRIMARY OPENER				
MENU FUNCTION	"SELECT" LIGHT	"SETTING" LIGHT		
		RED	GREEN	YELLOW
1. PRIMARY/SECONDARY OPENER SELECT	RED	SECONDARY	PRIMARY (DEFAULT)	N/A
2. GATE SWING DIRECTION	GREEN	CLOCKWISE (DEFAULT)	COUNTER-CLOCKWISE	N/A
3. OPEN / CLOSE SEQUENCE	FLASHING GREEN	SIMULTANEOUS (DEFAULT)	SEQUENTIAL WITH PRIMARY OVERLAP (P-S-S-P)	SEQUENTIAL WITH SECONDARY OVERLAP (S-P-P-S)
4. DUAL GATE MODE	FLASHING YELLOW	WIRELESS	WIRED (DEFAULT)	N/A
5. LEARN MODE (KEYCHAIN TRANSMITTER / WIRELESS KEYPAD / SECONDARY OPENER)	CYCLING RED - GREEN - YELLOW -	LISTEN FOR TRANSMITTERS / KEYPADS	TRANSMITTER LEARNED	KEYPAD LEARNED

SETUP MENU FOR SECONDARY OPENER				
MENU FUNCTION	"SELECT" LIGHT	"SETTING" LIGHT		
		RED	GREEN	YELLOW
PRIMARY/SECONDARY OPENER SELECT	RED	SECONDARY	PRIMARY (DEFAULT)	N/A
GATE SWING DIRECTION	GREEN	CLOCKWISE (DEFAULT)	COUNTER-CLOCKWISE	N/A
DUAL GATE MODE	FLASHING YELLOW	WIRELESS	WIRED (DEFAULT)	N/A
LEARN MODE (PRIMARY / SECONDARY OPENER PAIRING) THE PRIMARY OPENER SHOULD BE FIRST SET TO PAIRING MODE, THEN THE SECONDARY.	CYCLING RED - GREEN - YELLOW -	PAIRING ERROR	PAIRING SUCCESSFUL	START PAIRING

Note: If setting your Secondary Opener to pair wirelessly with your Primary Opener, you must enter the "Primary/ Secondary Pairing Mode" while the Primary Opener is still in "Learn Mode".

(17) **Setting the Sensitivity & Auto-Close Adjustments**

Your Boerboel opener has built in Sensitivity and Auto-Close features. Located inside the top electronics enclosure of your operator, you will notice two small white dials which can be rotated by use of a small phillips head screwdriver.

Rotating the "Sensitivity" dial clockwise will decrease the sensitivity which is sensed when your gates encounter an obstruction while in the opening or closing cycle. *See below for information on gate obstructions.*

Rotating the "Auto-Close" dial clockwise will adjust the amount of time your Boerboel opener will wait before automatically closing. You can adjust your gates to close automatically anywhere between 15 and 120 seconds. *It is recommended to increase the sensitivity adjustment on your gate(s) when utilizing the "Auto-Close" feature.*
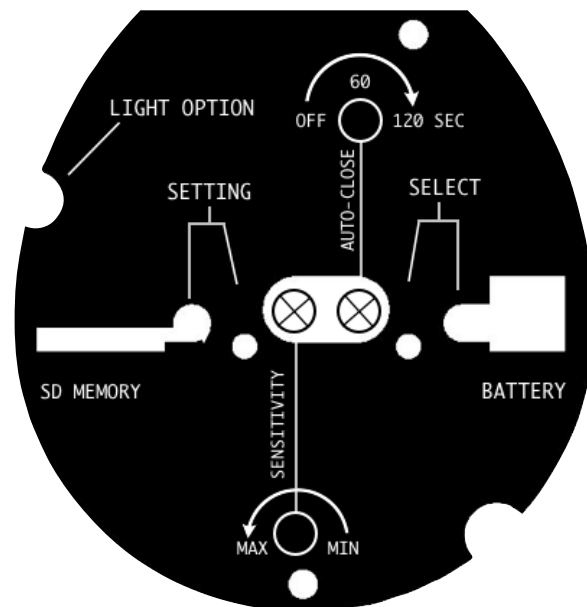
TWO TIMES OBSTRUCTION / ENTRAPMENT ALARM   (UL 325; 30A.1.1A)

The Boerboel Power Gate Opener has a built-in alarm which activates when the gate hits something twice in a row. The Boerboel opener will stop its motion and reverse within two seconds when the gate comes into contact with an obstruction. If the Boerboel opener re-attempts to complete its opening/closing cycle and encouters a second obstruction, the gate will stop altogether and the alarm will activate. This alarm will sound until the "On/Off" switch is switched to the "Off" position *(I indicates "On" and O indicates "off")*. Be sure to remove the obstruction from the gate's path before attempting to re-cycle the gate. Boerboel accessories such as the Keychain Remote Kit, Wireless Keypad Kit and Push Button Opener Kit will not deactivate the alarm. All opener(s) must be powered down for 10 seconds to reset the system.
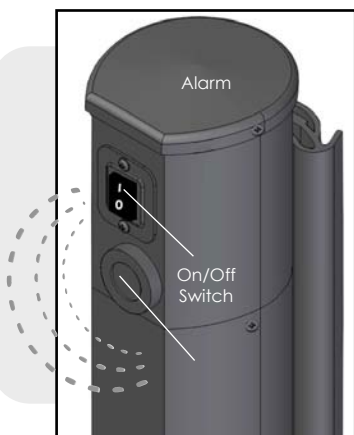
THANK YOU
for purchasing the

BOERBOEL
Solid. Simple. Secure.

Power Gate Opener.

For more information on Boerboel's full line of products, please visit our website at: www.boerboelgatesystems.com or call **1-888-418-4400**.

U.S. Patents: 7,942,386; 7,958,675
Canadian Patent: 2647091
U.S. and Foreign Patents pending