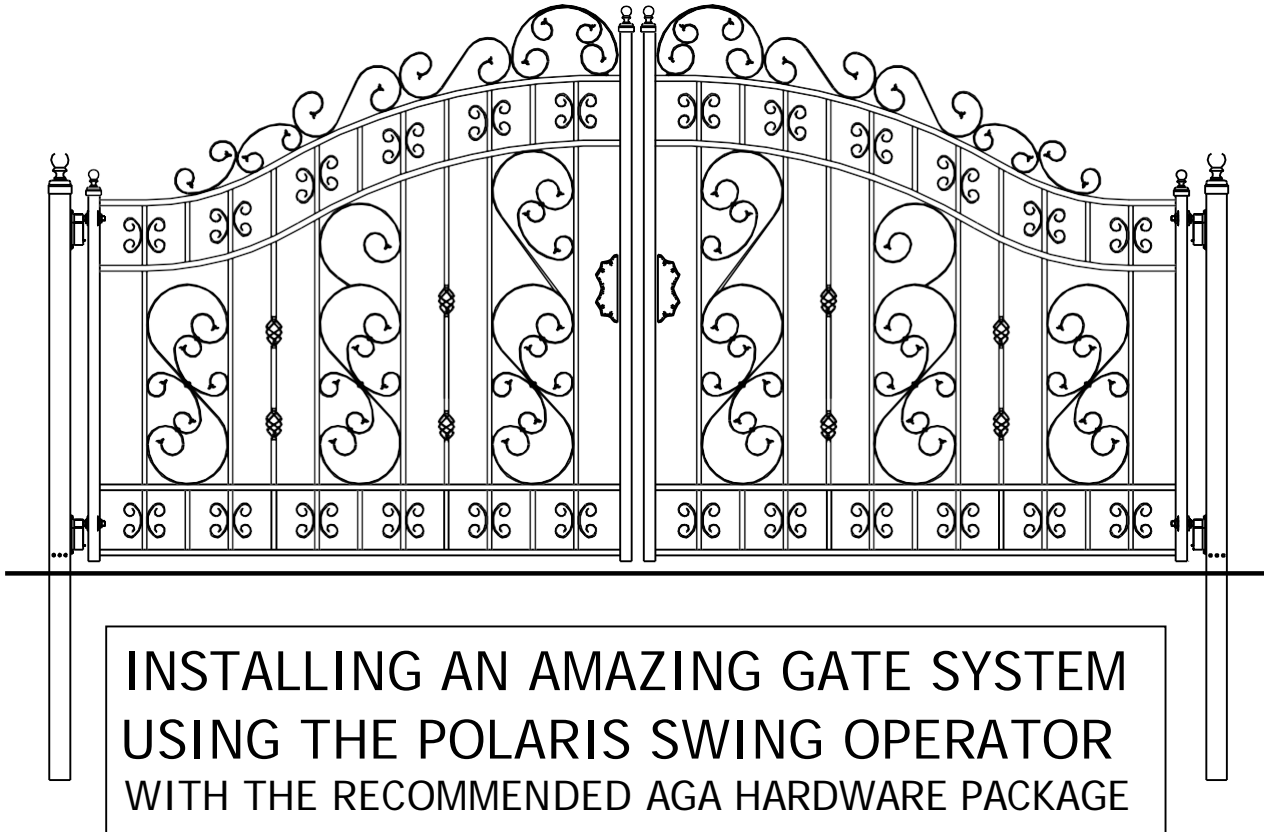


PLEASE!! READ THESE INSTRUCTIONS!  
EACH SEPARATE CONTROL YOU BOUGHT  
HAS ITS OWN INSTRUCTIONS BUT  
WE RECOMMEND YOU USE THESE FIRST.



FROM THE ORIGINATORS OF THE  
PRE-HUNG AUTOMATIC GATE SYSTEM

**AMAZING GATES OF AMERICA, LLC.**

**8617 PASEO ALAMEDA NE**

**ALBUQUERQUE NM 87113**

**[www.amazinggates.com](http://www.amazinggates.com)**

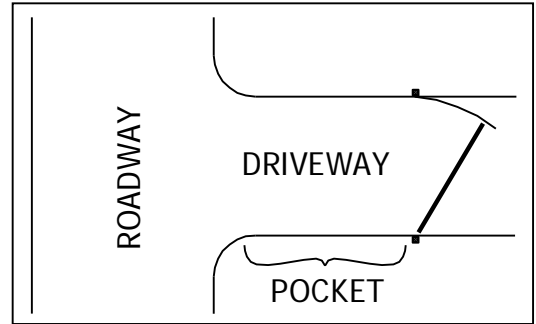
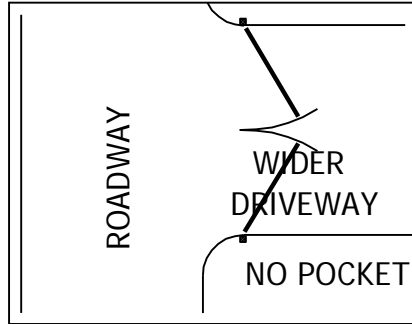
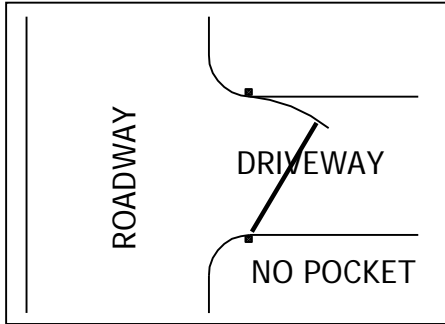
CUSTOMER SERVICE 800-234-3952 TECH SUPPORT 505-404-2219

# LAYING OUT YOUR AMAZING GATE

Determine the gate location and lay it out on the ground. White spray paint or white flour work well and some stakes and a string line are helpful. Basic principals include: THE POCKET, ie. the gate's distance from the turn into your driveway, SQUARENESS, ie. the gate's angle to the drive path, INSWING/OUTSWING, and HANDING, ie. which side of the gate has the hinges?

Below are drawings showing some layout scenarios. Sometimes space limitations may force you to use a less desirable layout.

## THE POCKET



**WORST CASE-** PREVENTS YOU FROM PULLING OFF ROAD AS YOU WAIT FOR THE GATE. PREVENTS LARGER VEHICLES FROM MAKING THE TURN IN

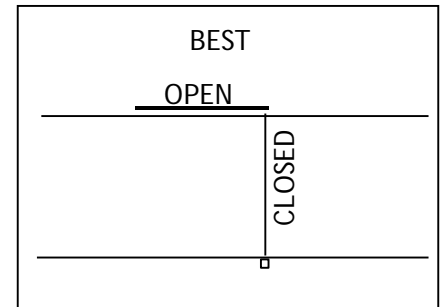
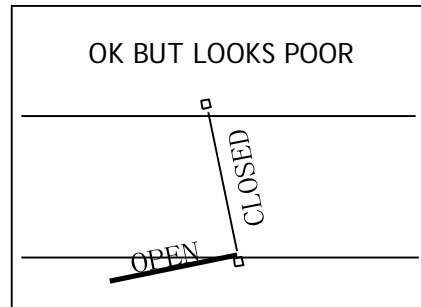
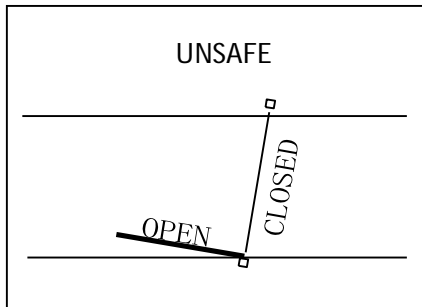
**IMPROVED CASE-** DOESN'T ALLOW A POCKET BUT ALLOWS LARGER VEHICLES (A MOVING VAN ETC.) TO MAKE THE TURN INTO THE DRIVEWAY

**BEST CASE-** LETS YOU COMPLETE THE TURN AND PULL OFF ROAD WHILE YOU WAIT FOR GATE TO OPEN

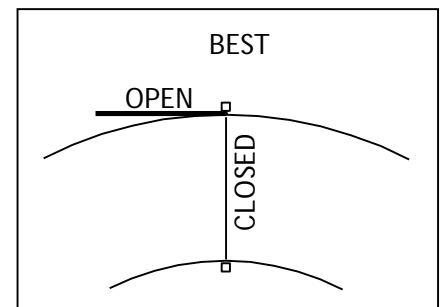
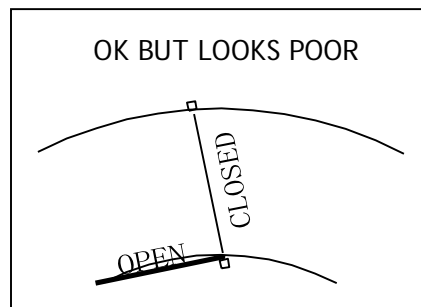
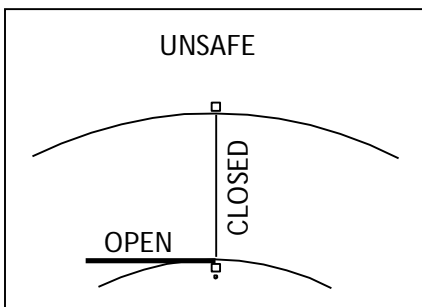
1. It is most desirable to have a slight "pocket" in front of your gate. If the gate must be right up against your road, a wider opening should be considered.

## SQUARENESS

1. Since most automatic gates open only slightly more than ninety degrees, it is important to make the gate perpendicular to your drive path.



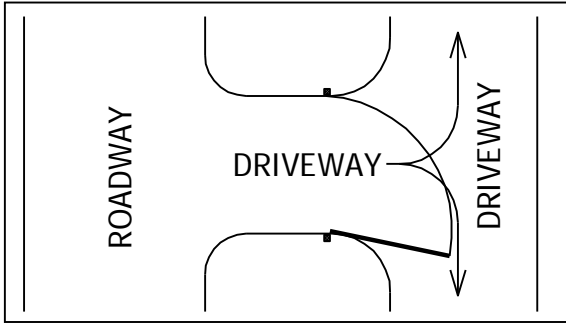
1. Curved driveways demand extra care in layout. No one wants their gate hit by a vehicle.



# LAYING OUT YOUR AMAZING GATE

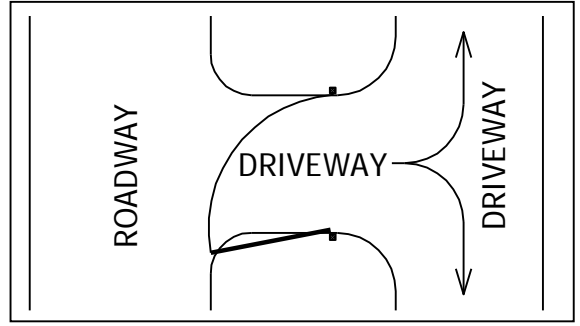
## IN SWING/OUT SWING

1. The most desirable configuration for a swinging gate is to swing inward. However, certain driveway conditions can make it necessary to swing a gate outward.

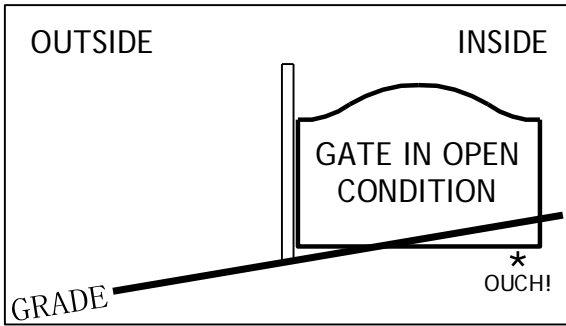


PROBLEM (AT LEFT)  
WHEN OPEN, IN SWINGING GATE PROTRUDES INTO DRIVE SPACE

SOLUTION (RIGHT)  
CHANGE GATE TO AN OUT-SWING

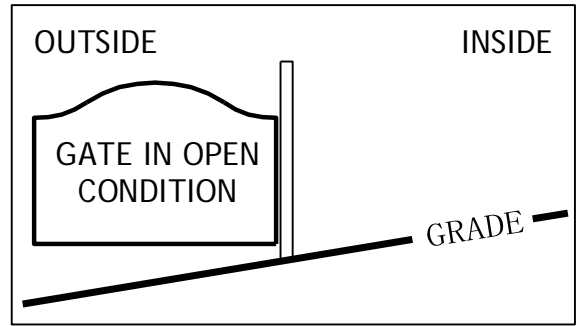


2. Another condition that may force you to swing your gate outward is an upward sloping driveway.



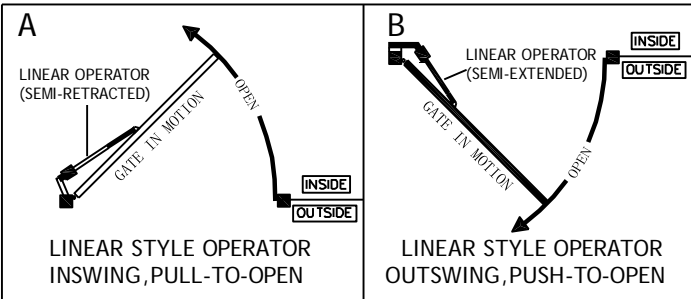
PROBLEM (AT LEFT)  
WHEN IN-SWINGING GATE OPENS, IT HITS GROUND. YOU CAN HANG GATE HIGHER ON THE POST BUT MORE THAN 6"-8" ABOVE GRADE LOOKS BAD.

SOLUTION (RIGHT)  
GATE INSTALLED AS AN OUT-SWING, PLENTY OF GROUND CLEARANCE.

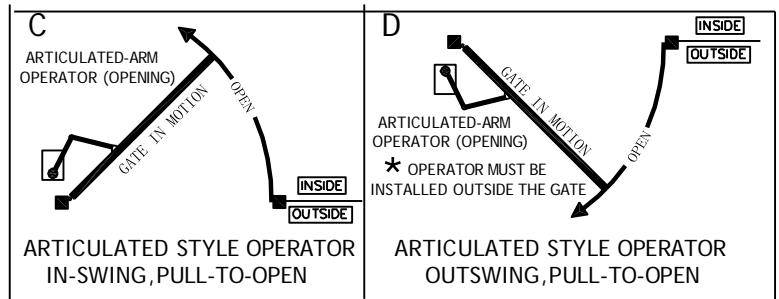


3. A linear operator ( like the Polaris 500i700) can be set up as "pull-to-open" (drawing A below) or as "push-to-open" (drawing B below) ie. gate swings outward and the operator stays inside.

4. An articulated-arm operator (Elite CSW or 200 Linear SWD211) can be set up to open inward (see drawing C below) or to open outward (drawing D below) but the operator must go outside the gate.



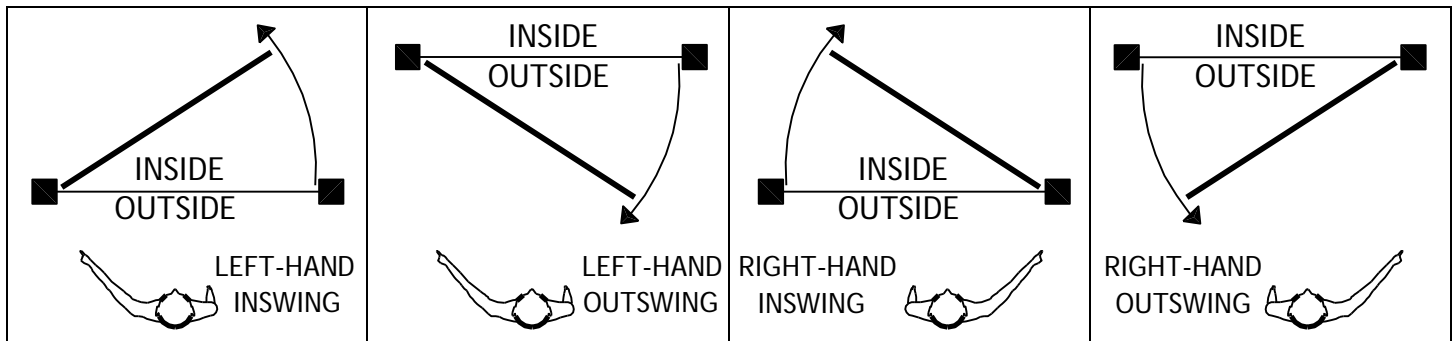
Polaris 500 - 700 's



ELITE CSW-200 or LINEAR SWD-211

## "HANDING" YOUR GATE

Imagine standing OUTSIDE your gate, then ask yourself "are the hinges on the right or the left?" See the four examples below.



**IMPORTANT HINGE POST**  
**INSTALLATION INFORMATION, PLEASE**  
**READ!**

BEFORE INSTALLING YOUR HINGE POSTS IN CONCRETE, PLEASE DOUBLE CHECK THE PLACEMENT OF THE INDICATING STICKER ON YOUR HINGE POSTS, THIS STICKER SHOULD MARK A LINE 36" FROM THE BOTTOM OF THE 3.5" or 5" DRIVE GATE HINGE POST AND 26 3/8" FROM THE BOTTOM OF THE 2.5" PEDESTRIAN GATE HINGE POSTS. THE STICKER INDICATING WHERE THE BOTTOM OF THE GATE WILL HANG THAT IS ON YOUR HINGE POSTS IS MEANT ONLY AS A STANDARD GUIDE AND THE BOTTOM OF THE GATE, DEPENDING ON THE STYLE YOU CHOOSE, MAY DIFFER FROM THE STICKER. ALSO, SOMETIMES THE STICKER CAN MOVE DUE TO HEAT OR MOISTURE OR BE MIS-PLACED DUE TO HUMAN ERROR. AS THE POSITION OF THE HINGE POST IS CRITICAL TO ENSURING PROPER INSTALLATION, ALWAYS DOUBLE CHECK BEFORE POURING CONCRETE TO ENSURE YOUR GATE WILL HANG AT THE DESIRED HEIGHT, GENERALLY BETWEEN 2-4" ABOVE GRADE.

Thank you for your purchase!

Amazing Gates of America LLC.

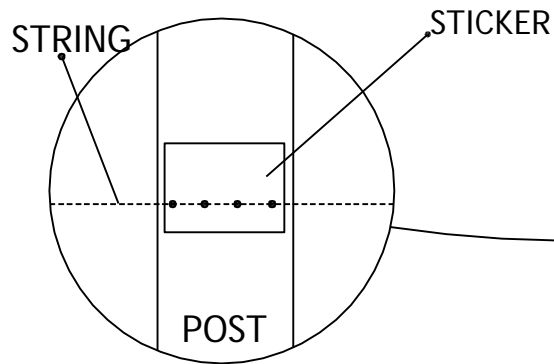
# DRIVE GATES

# SETTING THE POSTS

YOU WILL NEED:

1. STRING LINE AND LINE LEVEL
2. SHOVEL/POST HOLE DIGGERS/DIGGINGBAR
3. TAPE MEASURE AND A LEVEL
4. HAMMER AND STAKES
5. WHEELBARROW
6. PRE-MIXED CONCRETE  
(APPROX. 8-10 60 LB. OR 6-8 80 LB. SACKS)

- 3 ALIGN THE INDICATING STICKER ON THE POST WITH THE LEVEL STRING

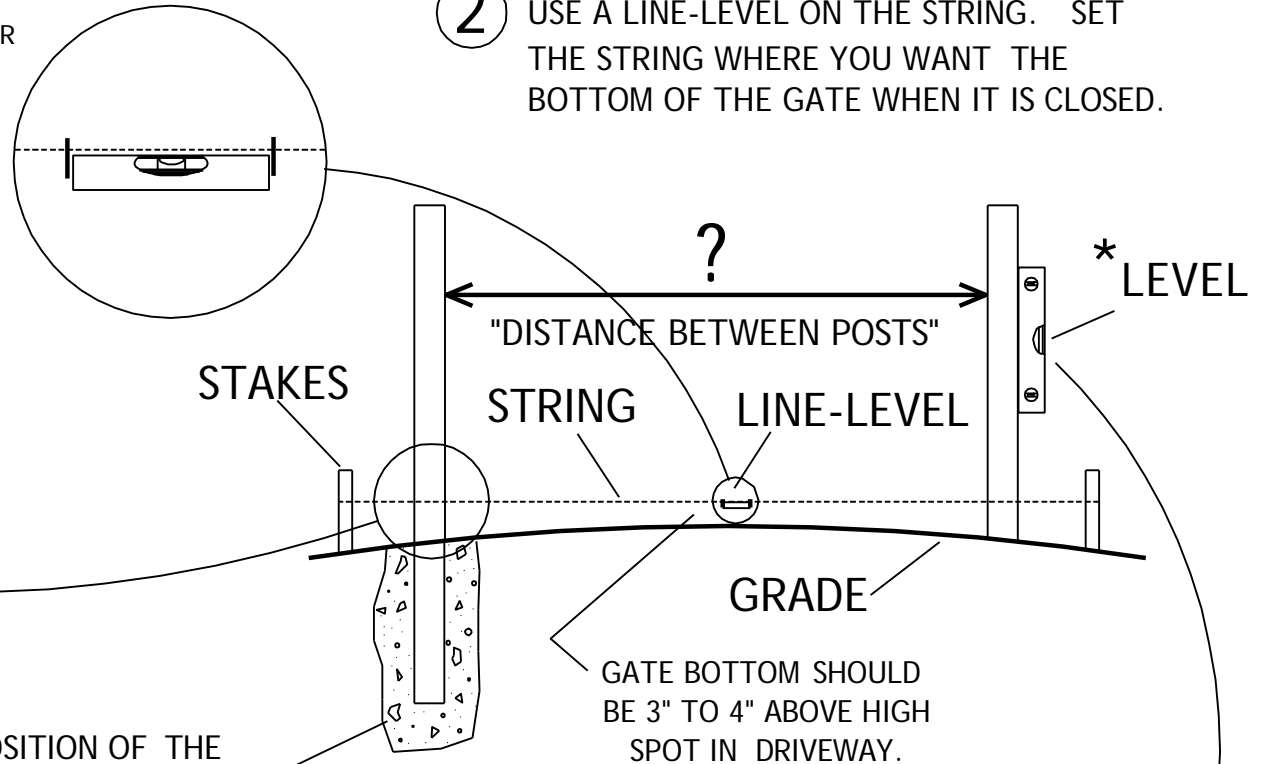


NOTE: ALWAYS DOUBLE CHECK THE POSITION OF THE STICKER WITH A TAPE MEASURE AS STICKER CAN MOVE OR BE PLACED INCORRECTLY. MARKS ON THE STICKER SHOULD BE 36" FROM THE BOTTOM OF THE STANDARD 8'-2" HINGE POST.

4

SET THE POSTS IN CONCRETE, HOLE DIAMETER SHOULD BE AT APPROX. 16". DO NOT MAKE HOLE PERFECTLY ROUND. MIX CONCRETE STIFF SO THE POST WILL STAND UNAIDED UNTIL CONCRETE SETS (24 HOURS).

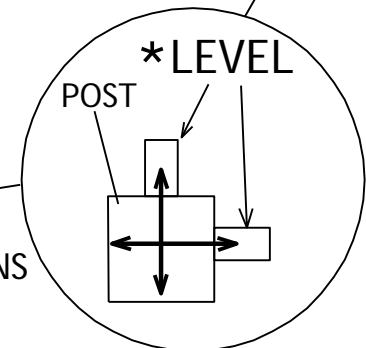
- 2 USE A LINE-LEVEL ON THE STRING. SET THE STRING WHERE YOU WANT THE BOTTOM OF THE GATE WHEN IT IS CLOSED.



- ? "DISTANCE BETWEEN POSTS" IS THE NOMINAL WIDTH OF YOUR GATE, I.E. IF YOU BOUGHT A 16 FOOT GATE, SET THE POSTS EXACTLY 16 FEET APART, 12 FOOT GATE, 12 FEET APART ETC.

5

USE THE LEVEL TO PLUMB THE POSTS IN BOTH DIRECTIONS



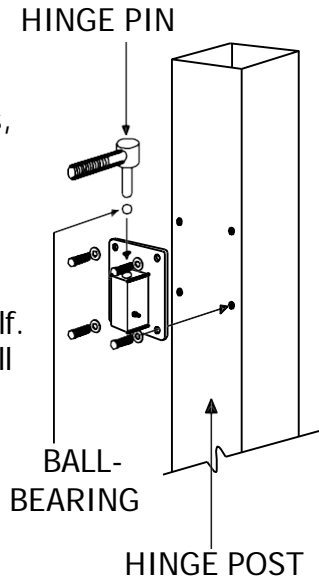
# HANGING THE GATE

We will illustrate a single swing gate. A dual or bi-parting simply has a second hinge post in lieu of a strike post

BESIDES THE EQUIPMENT WE SHIPPED TO YOU, YOU WILL NEED: 1. 2 crescent wrenches 2. screwdrivers 3. a level 4. Some all-weather grease 5. A helper

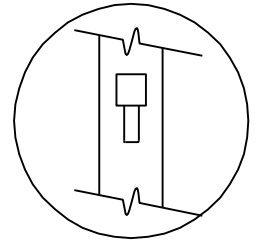
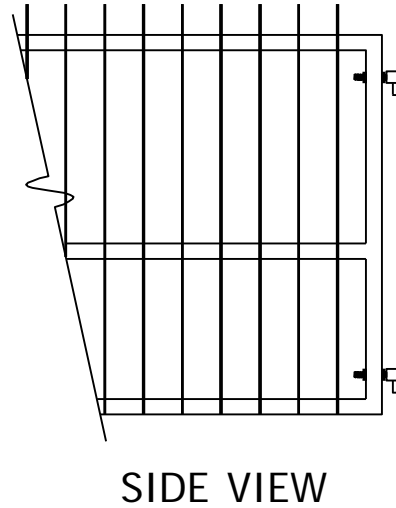
## 1 PREP HINGES

Using the supplied machine screws bolt the hinge barrel assemblies to the posts. Do NOT over-tighten these bolts, 20 foot pounds is the maximum recommended. The other half of each hinge, the hinge-pin, bolts through the  $\frac{3}{4}$  inch holes in the gate itself. Each hinge-barrel takes a ball bearing and a hinge-pin. Using an all-weather grease, put a dollop on each ball bearing and insert a bearing into each barrel.



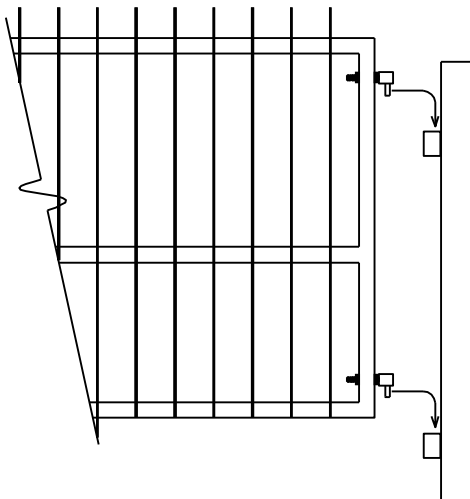
## 2 PREP HINGE-PINS

Next, put the threaded portion of the hinge-pins through the holes in the gate frame, tighten lightly with a wrench, making sure the unthreaded portion points down and is parallel to the gate frame.



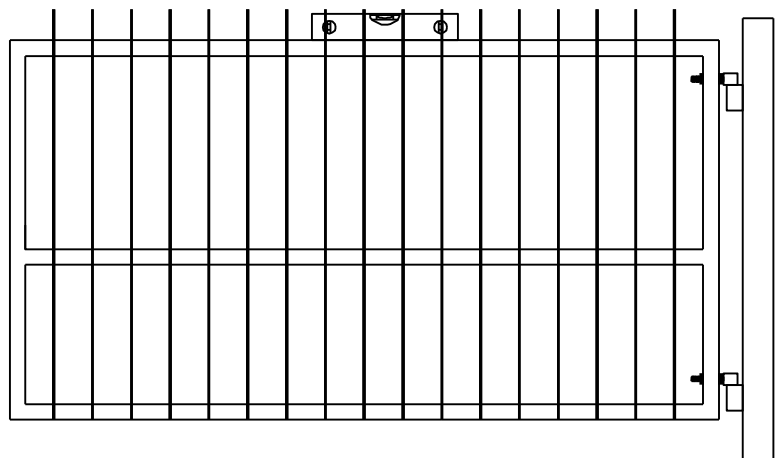
## 3 HANG THE GATE

Using a helper, lift the gate and gently slide it toward and down onto the hinge barrels. This may take two or three attempts since both hinge-pins must enter the barrels simultaneously.



## 4 LEVEL AND TIGHTEN

Finally, using your level and the crescent wrenches, adjust the top and bottom hinge-pins with the nuts until the gate hangs exactly level. Check the swing, it should be smooth and quiet. Tighten the hinge-nuts completely.



DRIVE SURFACE

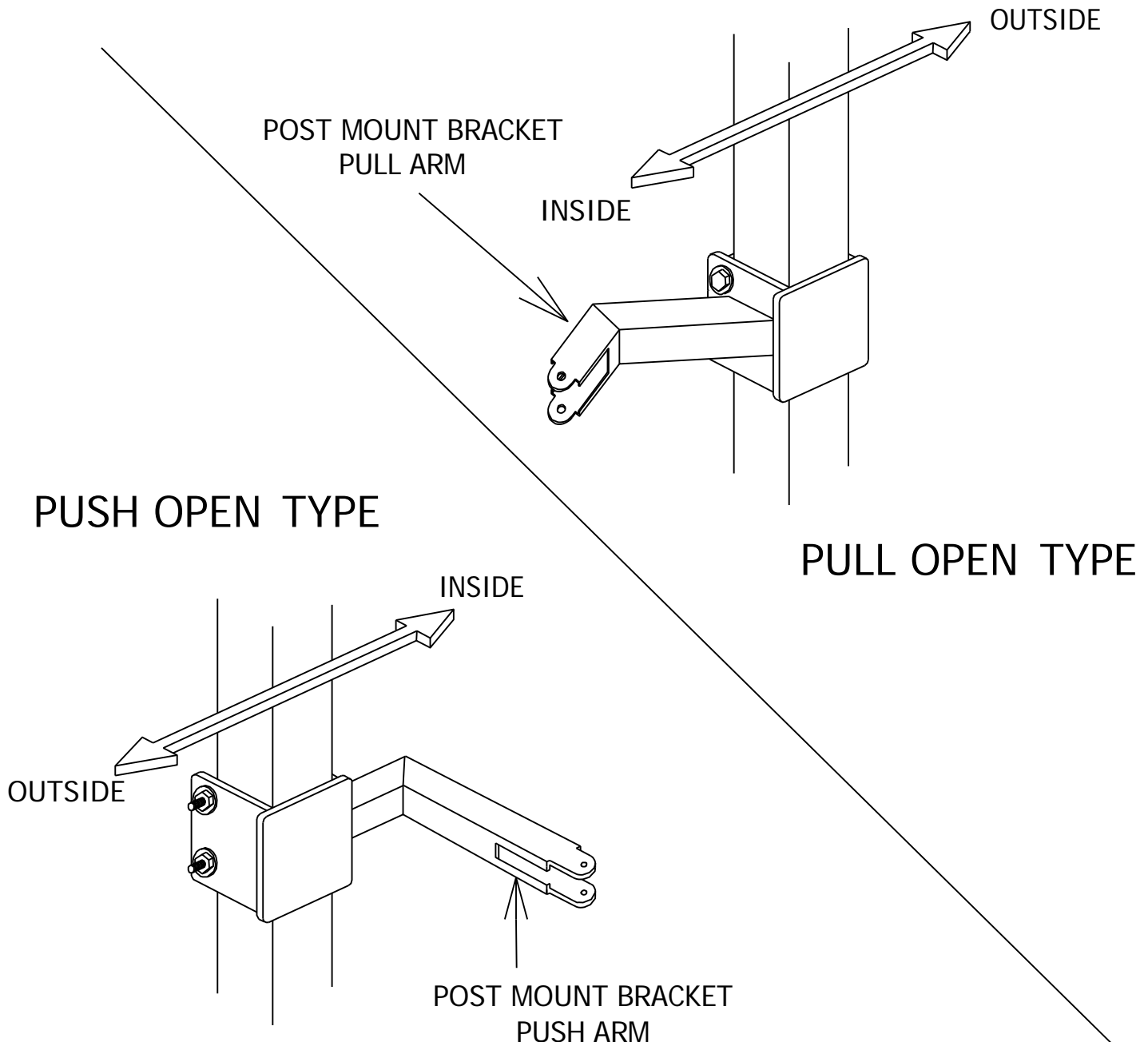
DRIVE SURFACE

# AMAZING GATES POST MOUNT BRACKETS

## AMAZING GATES POST MOUNT BRACKET PULL ARM

With the purchase of a Full Gate System (gate, post, swing operator and hardware package) you will receive the Amazing Gates pre-assembled pull or push arm. If this is the case you will NOT use the hardware brackets that automatically come inside the operator box for mounting the operator to the post.

The Amazing Gates post attachment arm does not require drilling of the post to be installed. You simply set it into position and bolt it tight. The correct angle is pre-set.

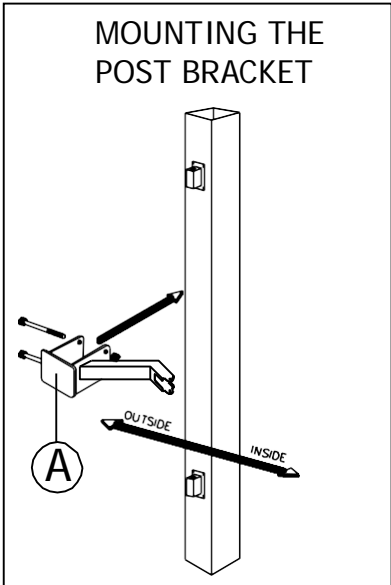


REMEMBER! IF YOU HAVE THE FULL GATE SYSTEM (GATE, POST AND SWING OPERATOR) YOU WILL NOT USE THE HARDWARE BRACKETS THAT AUTOMATICALLY COME WITH GATE OPERATOR.

# INSTALLING THE POLARIS 500/700 SWING OPERATORS

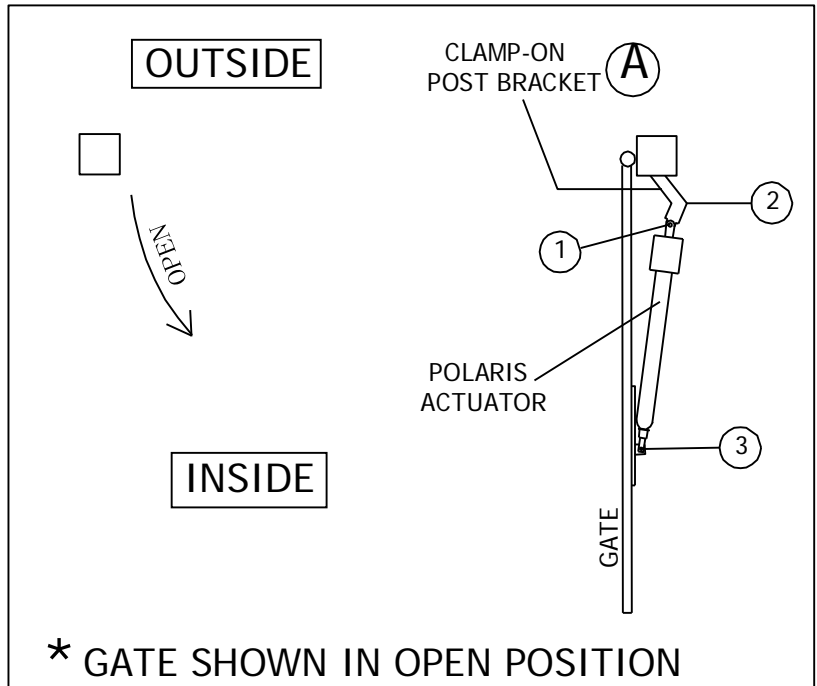
## PULL TO OPEN GATES

GATE SWINGS INWARD, OPERATOR IS ON INSIDE. WHEN THE GATE IS FULLY OPEN, THE OPERATOR IS RETRACTED.



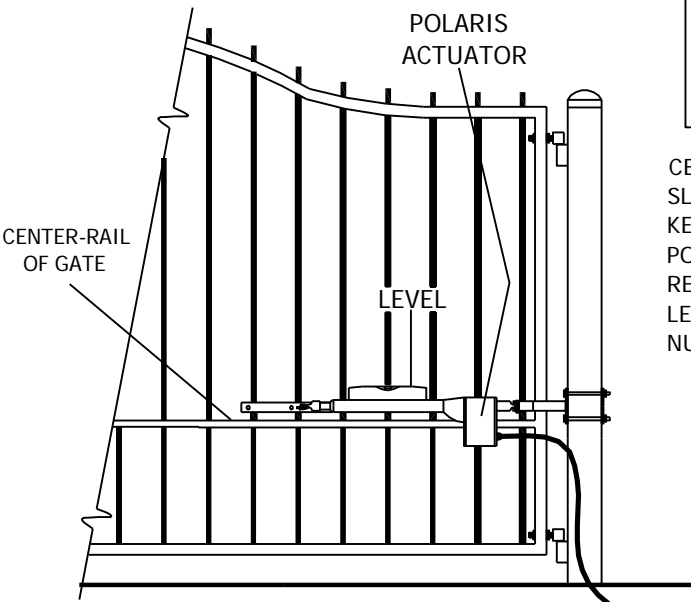
BEGIN WITH THE GATE FASTENED IN THE OPEN POSITION. POSITION THE POLARIS ACTUATOR AS IT COMES OUT OF THE BOX i.e. FULLY RETRACTED. THE BOLTS, CLEVIS PINS AND ACTUATOR END BRACKET COME IN THE POLARIS BOX IN A PLASTIC BAG. USING BIG CLEVIS PIN (1) AND THE BIG WHITE NYLON WASHER FASTEN THE REAR OF THE ACTUATOR TO THE CLAMP-ON POST BRACKET. (2) USING THE OTHER CLEVIS PIN, ATTACH THE NARROW END OF THE ACTUATOR TO THE ACTUATOR ATTACH TAB. (3) WITH THE GATE IN THE OPEN POSITION, SECURE THE ACTUATOR END BRACKET TO THE GATE PICKETS. THE GATE SHOULD SIT OPEN AT LEAST 90 DEGREES FROM THE CLOSED POSITION WITH THE ACTUATOR FULLY RETRACTED.

THE CLAMP-ON POST BRACKET (A) COMES IN ITS OWN PACKAGE, NOT IN THE POLARIS CARTON. THIS BRACKET ENCLOSES THE POST ON 3 SIDES (SEE DRAWING ABOVE) TEMPORARILY TIGHTEN THE BOLTS JUST ENOUGH SO THE BRACKET WON'T SLIDE DOWN THE POST.



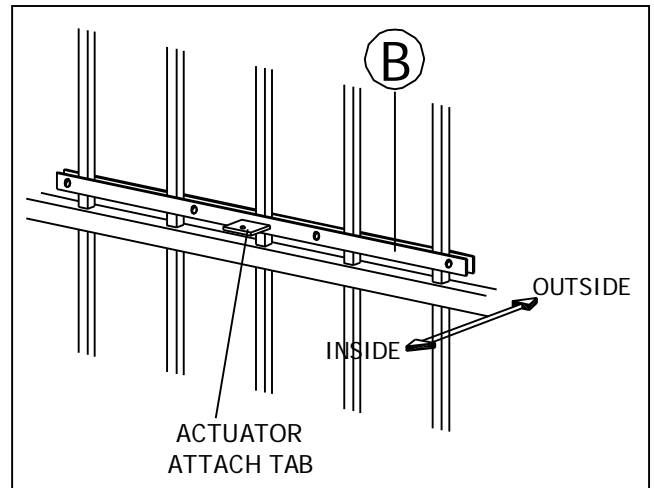
\* GATE SHOWN IN OPEN POSITION

CENTER THE POST BRACKET (A) AND THE ACTUATOR ATTACH BRACKET (B) SLIGHTLY ABOVE THE CENTER-RAIL. TIGHTEN BOLTS ENOUGH TO KEEP THE BRACKETS FROM MOVING AROUND EASILY. POSITION THE POLARIS ACTUATOR AS IT COMES OUT OF THE BOX i.e. FULLY RETRACTED. ONCE THE ACTUATOR IS FASTENED TO BOTH BRACKETS, LEVEL THE ACTUATOR WITH A TORPEDO LEVEL AND TIGHTEN THE NUTS ON BOTH BRACKETS.



\* GATE SHOWN IN OPEN POSITION

THE TWO PIECE ATTACH BRACKET WILL TYPICALLY REST ABOVE OR BELOW THE CENTER RAIL OF THE GATE. BE SURE TO LEVEL THE ACTUATOR THEN TIGHTEN BOTH THE CLAMP-ON BRACKET TO THE HINGE POST AND THE TWO PIECE ACTUATOR END BRACKET TO THE GATE PICKETS.

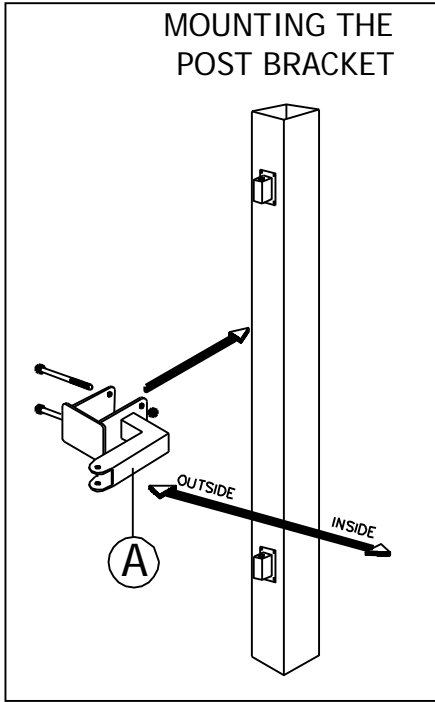




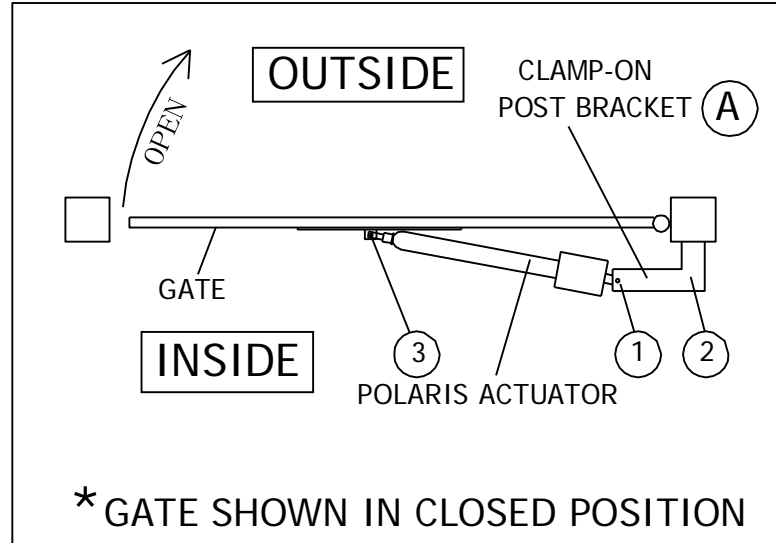
# INSTALLING THE POLARIS 500-700 SWING OPERATORS

## PUSH TO OPEN GATES

GATE SWINGS OUTWARD, OPERATOR IS ON INSIDE. WHEN THE GATE IS FULLY CLOSED, THE OPERATOR IS RETRACTED.

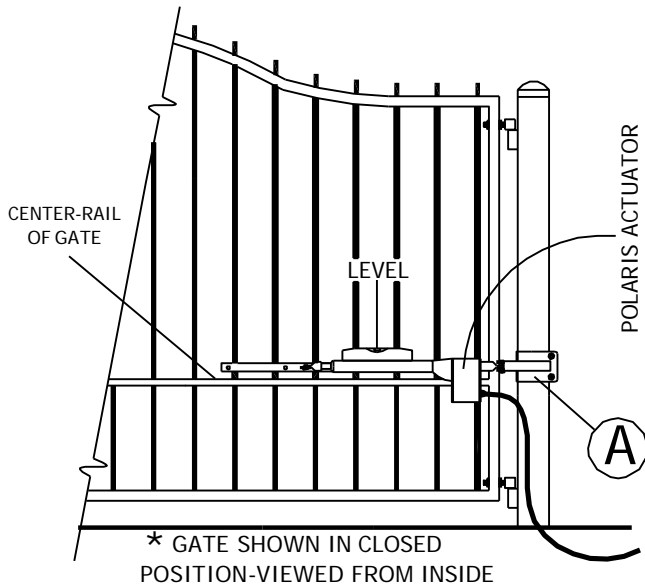


BEGIN WITH THE GATE FASTENED IN THE CLOSED POSITION. POSITION THE POLARIS ACTUATOR AS IT COMES OUT OF THE BOX i.e. FULLY RETRACTED. THE BOLTS AND CLEVIS PINS COME IN THE POLARIS BOX IN A PLASTIC BAG. USING BIG CLEVIS PIN 1 (A) AND THE BIG WHITE NYLON WASHER FASTEN THE REAR OF THE ACTUATOR TO THE CLAMP-ON POST BRACKET. (2) USING THE OTHER CLEVIS PIN, ATTACH THE NARROW END OF THE ACTUATOR TO THE ACTUATOR ATTACH TAB. (3) USING THE SUPPLIED PLATED CARRIAGE BOLTS AND MAKING SURE THE GATE IS STILL IN THE CLOSED POSITION, FASTEN THE CLAMP-ON ACTUATOR ATTACH BRACKET THRU THE GATE PICKETS. LEVEL THE ACTUATOR AND TIGHTEN UP BOTH BRACKETS MAKING SURE THE ACTUATORS ARE FULLY RETRACTED AND LEVEL.

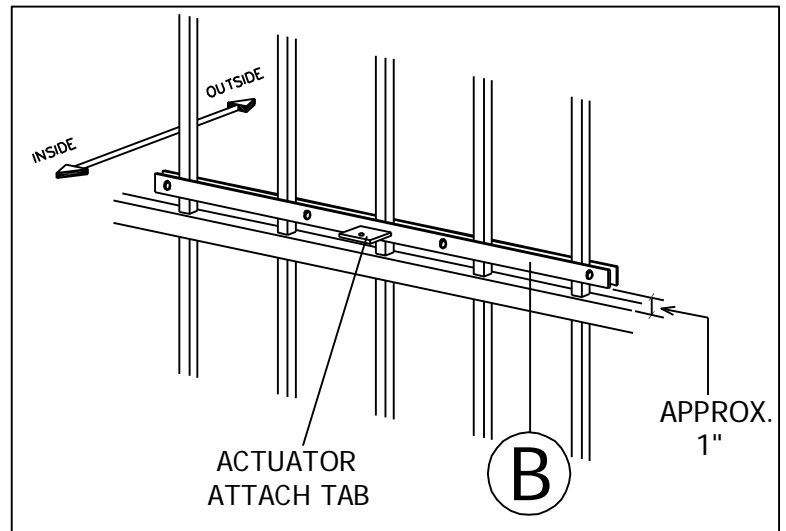


THE CLAMP-ON POST BRACKET (A) COMES IN ITS OWN PACKAGE, NOT IN THE POLARIS CARTON. THIS BRACKET ENCLOSES THE POST ON 3 SIDES (SEE DRAWING ABOVE) TEMPORARILY TIGHTEN THE BOLTS JUST ENOUGH SO THE BRACKET WON'T SLIDE DOWN THE POST.

CENTER THE POST BRACKET (A) AND THE ACTUATOR ATTACH BRACKET (B) SLIGHTLY ABOVE THE CENTER-RAIL. TIGHTEN BOLTS ENOUGH TO KEEP THE BRACKETS FROM MOVING AROUND EASILY. POSITION THE POLARIS ACTUATOR AS IT COMES OUT OF THE BOX i.e. FULLY RETRACTED. ONCE THE ACTUATOR IS FASTENED TO BOTH BRACKETS, LEVEL THE ACTUATOR WITH A TORPEDO LEVEL AND TIGHTEN THE NUTS ON BOTH BRACKETS.



THE TWO PIECE ATTACH BRACKET WILL TYPICALLY REST ABOVE OR BELOW THE CENTER RAIL OF THE GATE. BE SURE TO LEVEL THE ACTUATOR THEN TIGHTEN BOTH THE CLAMP-ON BRACKET TO THE HINGE POST AND THE TWO PIECE ACTUATOR END BRACKET TO THE GATE PICKETS.



# INSTALLING THE POLARIS 500 & 700 SWING OPERATOR

## WARNINGS-----

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. NEVER let children operate the gate or play with the controls.
3. Keep the remote controls out of children's reach.
4. Keep people and objects away from the gate and its immediate areas, both open and closed.
5. After the limit adjustments are made, all auto reversing controls including the current sensing circuit built into the Polaris must be checked. They must be working and set to the proper sensitivity. Failure to adjust and retest the gate system increases the chance of injury or death.
6. Test the system MONTHLY. Check to make sure that all auto-reversing devices including the current sensing circuit are working and set to the proper sensitivity.
7. Verify that the emergency (manual) release pin connected to the gate leaf can be easily removed. This check should only be made with the battery disconnected to prevent the gate from moving during the test.
8. This is a VEHICLE GATE ONLY. Pedestrians must use a separate entrance.
9. NEVER install any control device on the outside of the Polaris cabinet or in such a way that someone can reach through the gate to activate it.
10. SAVE THESE INSTRUCTIONS!

## CAUTIONS-----

1. NEVER operate the gate unless you can see it.
2. Do not enter the gate area while the gate is in motion.
3. Do not allow children near the gate and do not allow anyone to ride on the gate.
4. Do not attempt to drive through the gate opening while the gate is still in motion.

## ENTRAPMENT ZONES-----

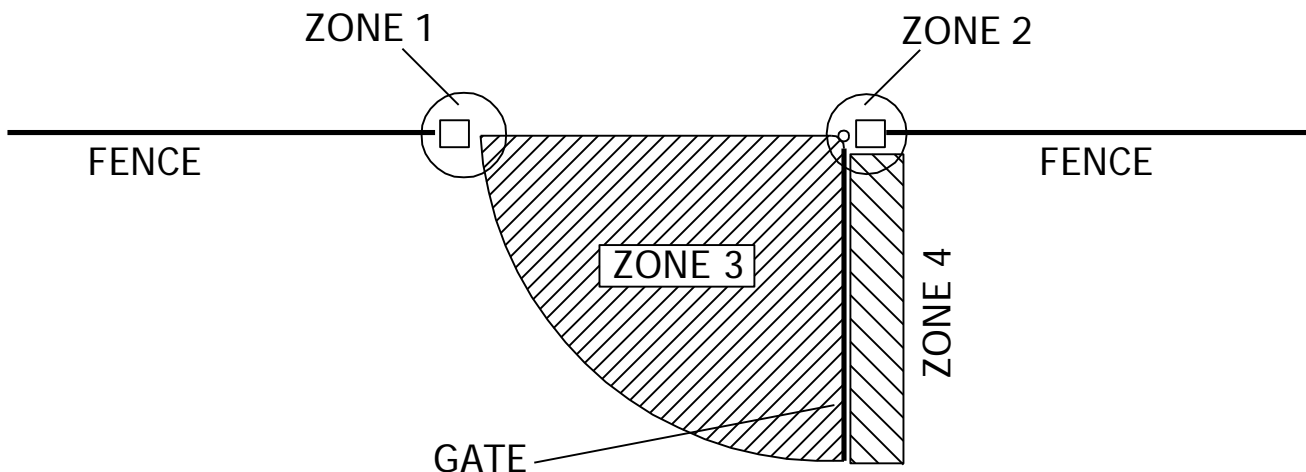
Zone 1- Leading edge of the gate and catch-post

Zone 2- Area between gate and hinge post

Zone 3- The gate path or "arc of the swing"

Zone 4- The area between the gate in its' open condition and any obstruction like a fence, building, landscaping feature etc.

Zone 5- Not shown below but similar to zone 1- the point where two biparting gate leaves meet when closed.



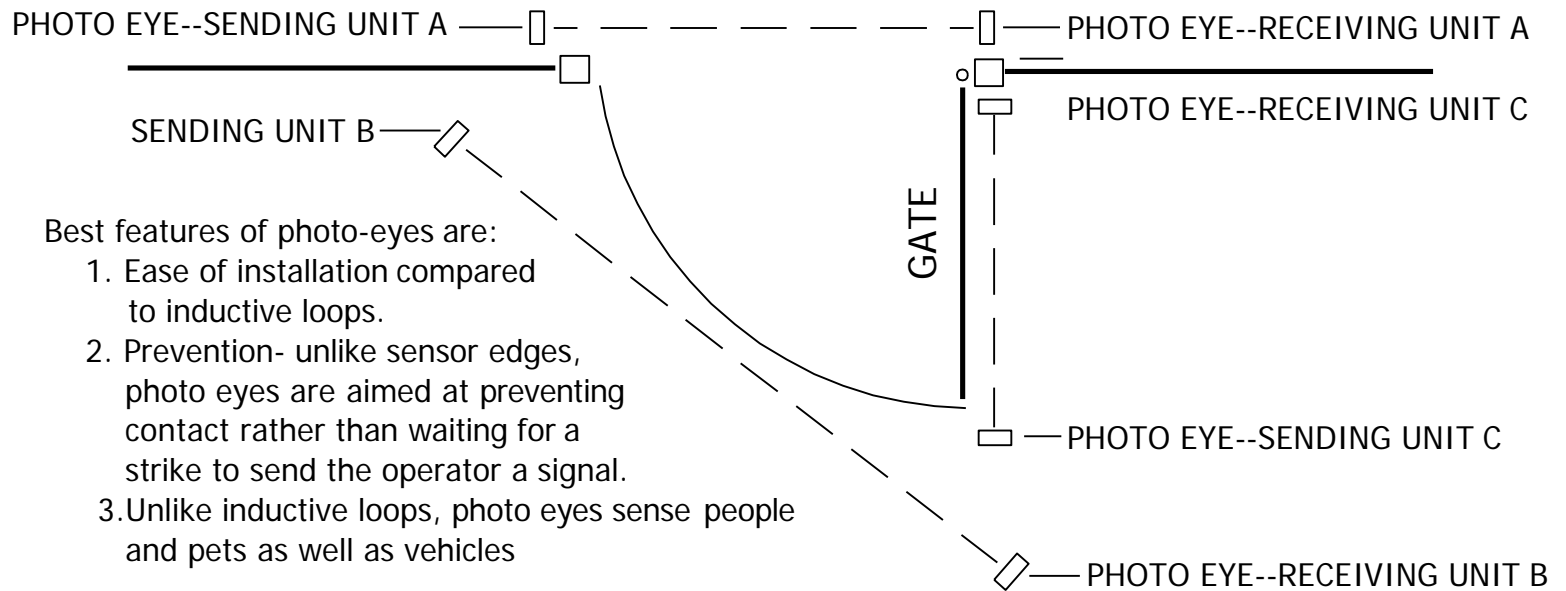
# INSTALLING THE POLARIS 500 OR 700

## ENTRAPMENT REMEDIES-----

### PHOTO EYES

Amazing Gates strongly recommends the use, AT LEAST, of two sets of photo eye controls (A and B below) to prevent the gate from closing on a person, pet, vehicle or inanimate object. Photo eyes A and B are only active when the gate is standing open or during the closing cycle. When the beam of either set is broken, the gate will not close, or if it is already closing it will stop and reopen. Photo eyes labeled "C" are recommended if you have an entrapment issue when gate is fully open. "C" should be wired to stop the gate during the OPEN cycle. Photo eyes come in pairs, there is a sending unit and a receiving/controller unit.

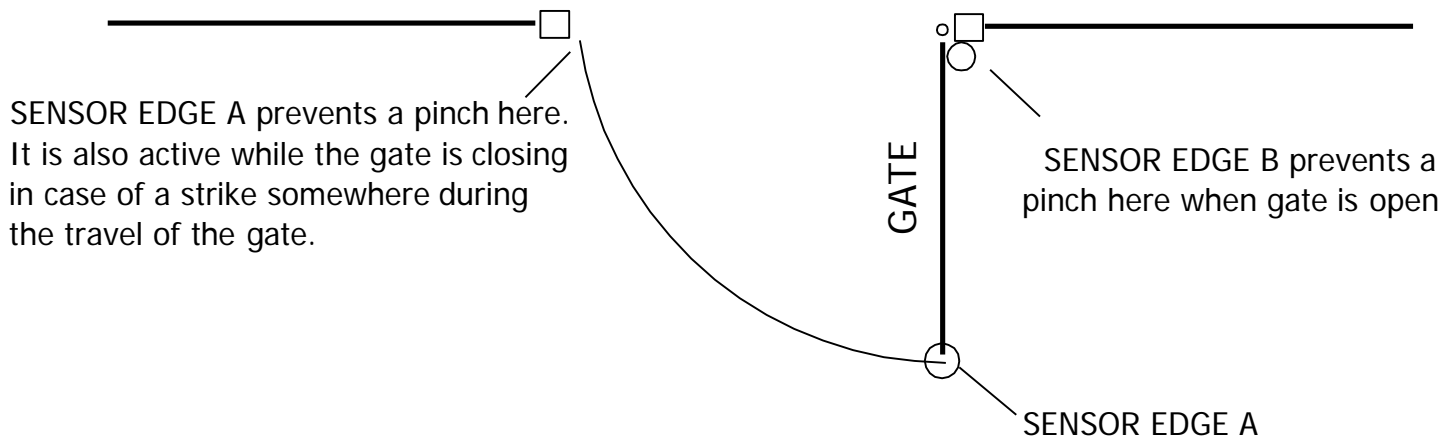
### THE CONFIGURATION SHOWN BELOW IS OUR RECOMMENDATION



### SENSOR EDGES

Amazing Gates also recommends the use of sensor edges wherever pinch points are anticipated. The most common spot for a sensor is on the leading edge of the gate so there is no pinch point at the catch post when the gate closes completely.

### THE CONFIGURATION SHOWN BELOW IS OUR RECOMMENDATION





# Amazing Gates of America

## *Instructions for attaching finials*

Encircle inside the base of the finial (spear, ball or flat cap) with a continuous bead of silicone. **Note:** Only a small amount of silicone is needed. Excess may form at the base when fitted over the picket. The excess can be removed by wiping with a damp cloth.

The finials should fit snug over the pickets. If a finial does not readily fit over the picket, drive the finial on using a rubber mallet. **\*CAUTION\*** the finials are made of aluminum; therefore make sure to use only a light amount of force. If you continue to have problems fitting the finial onto the picket, lightly sand down the powder coat finish at the top of the picket. Continue to lightly sand until the finial fits.

If these methods do not resolve the problem, please contact our Customer Service Department at: 800-234-3952.