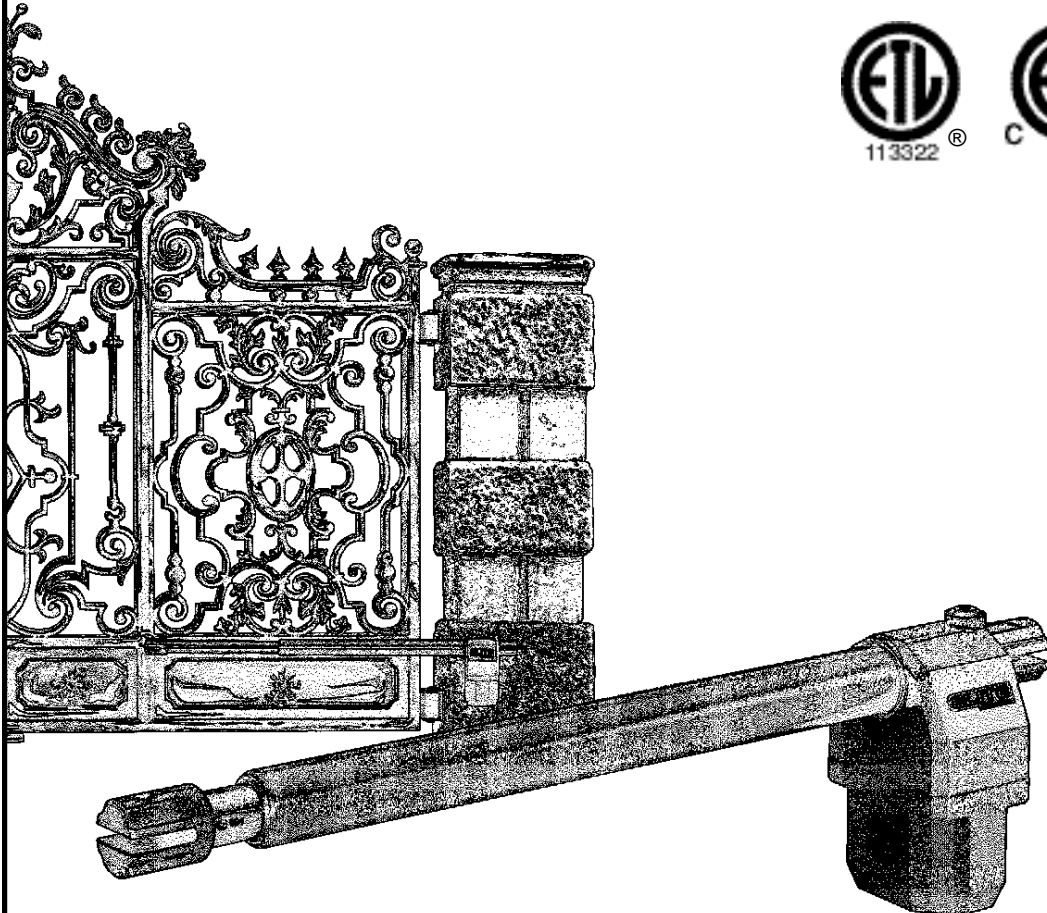


*INSTALLATION INSTRUCTIONS
& MANUAL BOOK FOR ARCHITECTS,
GENERAL CONTRACTORS & DEALERS*



*MODEL: ELITE ACTUATOR-1™
HIGH-QUALITY, ELECTROMECHANICAL,
LINEAR GATE OPERATOR FOR SINGLE HOME USE*

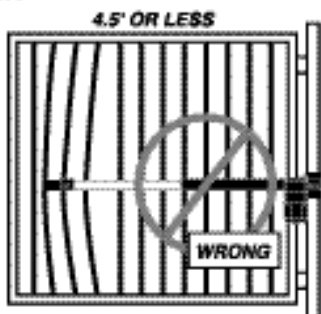
© COPYRIGHT 1994 ELITE ACCESS SYSTEMS, INC.



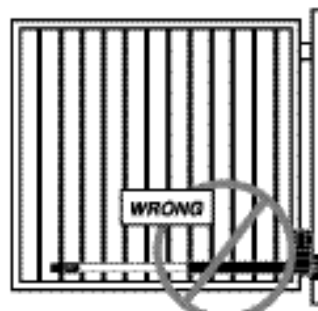
WARNINGS AND PRECAUTIONS



BE SURE TO READ AND FOLLOW ALL THESE IMPORTANT INSTRUCTIONS BEFORE INSTALLATION OF THE ELITE ACTUATOR-1. ELITE ACCESS SYSTEMS, INC. IS NOT RESPONSIBLE FOR IMPROPER INSTALLATIONS OR FAILURE TO COMPLY WITH LOCAL BUILDING CODES.

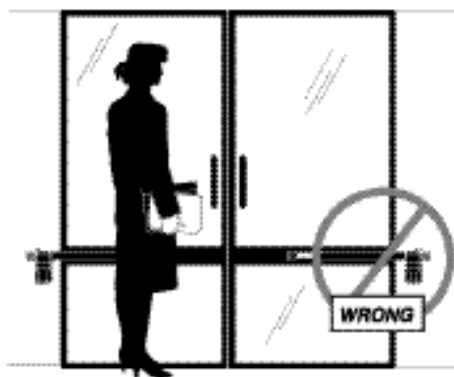


DO NOT INSTALL NEXT TO SPRINKLERS OR ANY AREA THAT MAY EXPOSE BOTTOM VENTHOLES TO WATER.



DO NOT INSTALL UPSIDE DOWN, AS WATER WILL GET IN VENT HOLES ON BOTTOM OF OPERATOR AND DAMAGE IT

NOT FOR INSTALLATION ON SMALL AND LIGHT GATES OR ANY GATE UNDER 4.5' OR 1.5' FRAME. INSTALLATION ON SUCH GATES WILL CAUSE DAMAGE TO THE GATE AND POSTS.



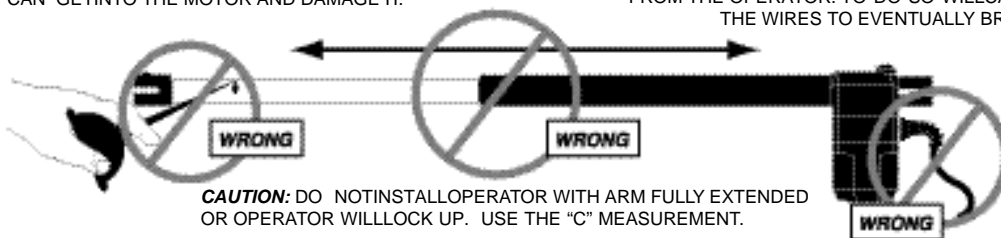
NOT FOR INSTALLATION ON ANY PASSAGES OR DOORWAYS.



NOT FOR INSTALLATION ON ANY PEDESTRIAN GATES.

WARNING: DO NOT LUBRICATE SHAFT. OIL CAN GET INTO THE MOTOR AND DAMAGE IT.

CAUTION: DO NOT BEND THE WIRE CONNECTION FROM THE OPERATOR. TO DO SO WILL CAUSE THE WIRES TO EVENTUALLY BREAK.



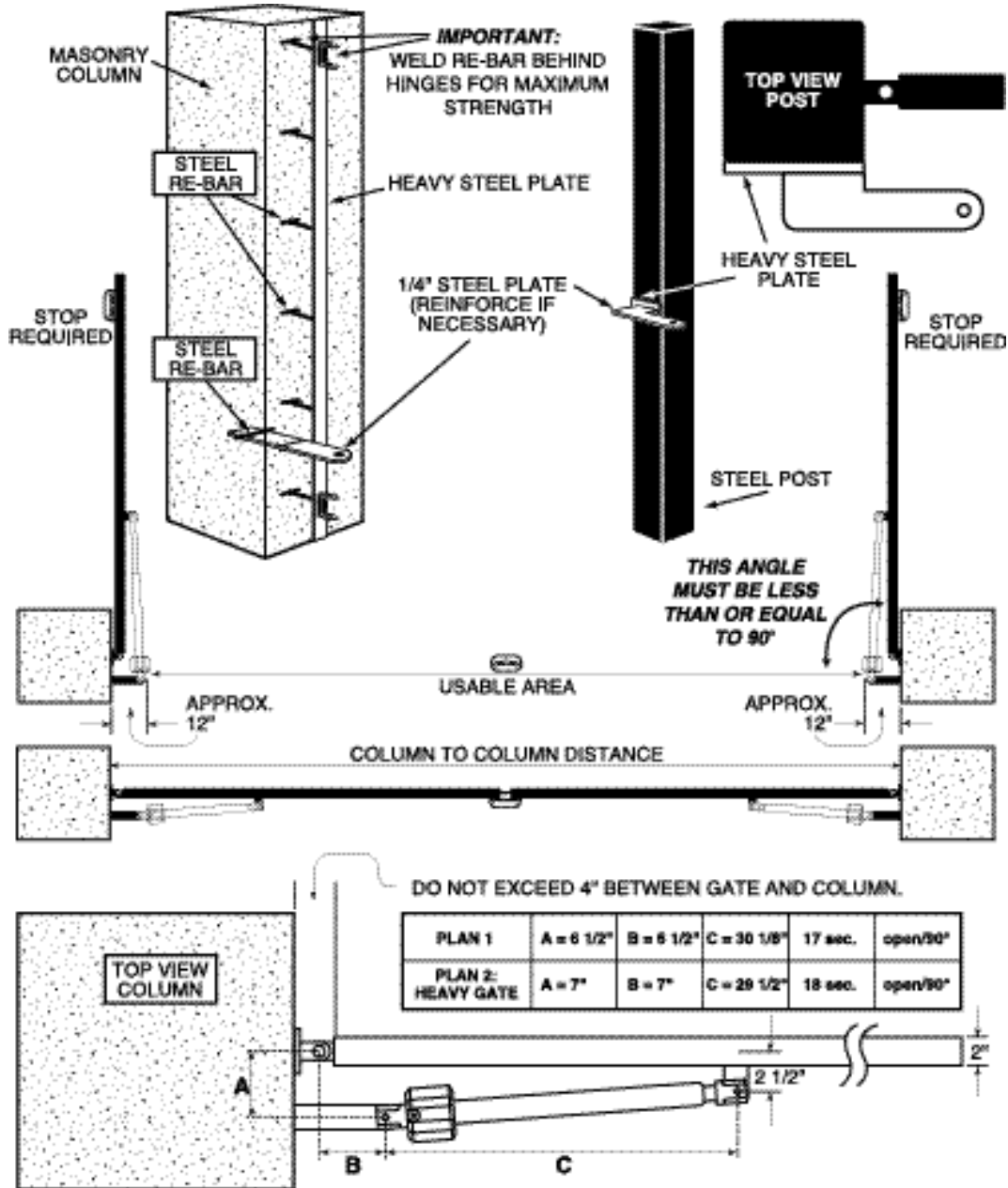
CAUTION: DO NOT INSTALL OPERATOR WITH ARM FULLY EXTENDED OR OPERATOR WILL LOCK UP. USE THE "C" MEASUREMENT.



ELITE ACTUATOR-1 REQUIRES POSITIVE STOPS TO BE INSTALLED AT OPENING AND CLOSING POSITIONS OF THE GATE IN ORDER FOR THE GATE OPERATOR TO FUNCTION.

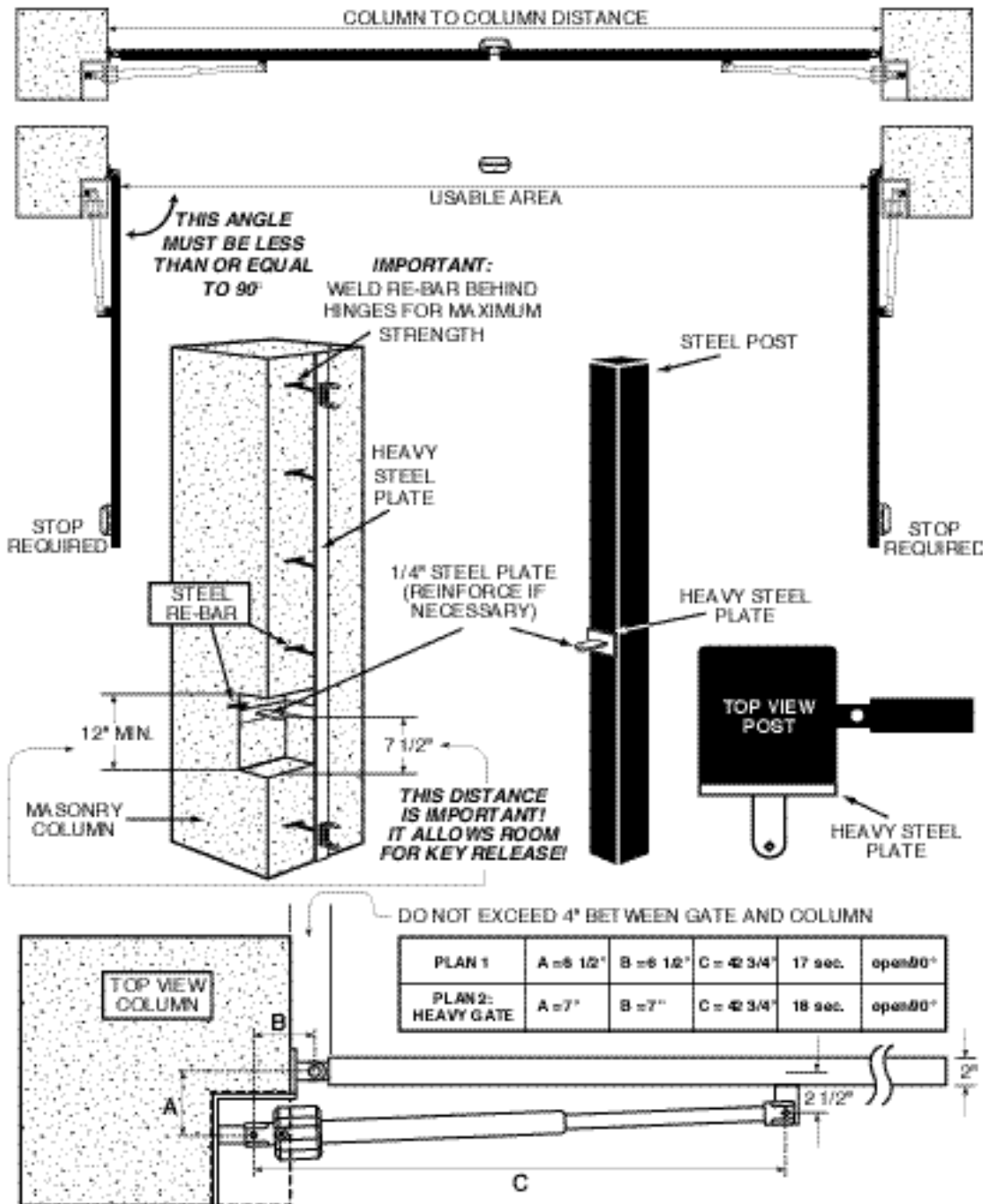
WARNING: TO REDUCE THE RISK OF INJURY TO PERSONS THE ELITE ACTUATOR-1 IS FOR VEHICULAR GATE USE ONLY

OPEN TO THE OUTSIDE GATE INSTALLATION & PREPARATION



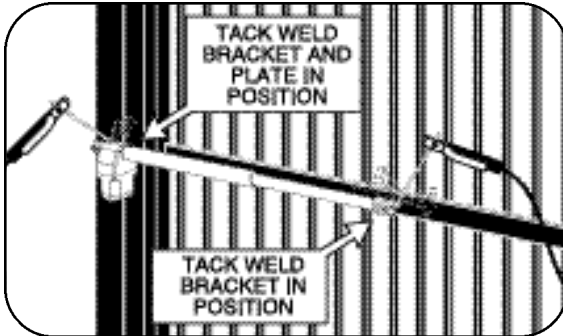
CAUTION: DO NOT INSTALL OPERATOR WITH ARM FULLY EXTENDED OR OPERATOR WILL LOCK UP. USE THE "C" MEASUREMENT. NOTE ELITE ACCESS SYSTEMS, INC. IS NOT RESPONSIBLE FOR IMPROPER INSTALLATIONS OR FAILURE TO COMPLY WITH LOCAL BUILDING CODES. DRAWINGS ARE NOT TO SCALE.

OPEN TO THE INSIDE GATE INSTALLATION & PREPARATION

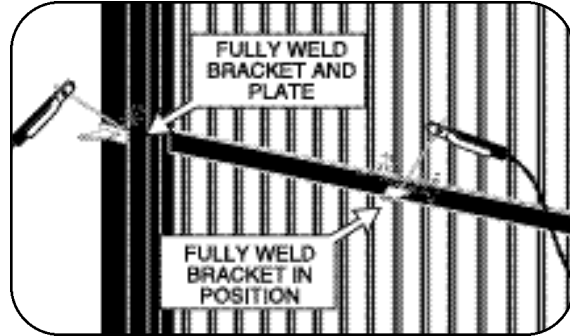


CAUTION: DO NOT INSTALL OPERATOR WITH ARM FULLY EXTENDED OR OPERATOR WILL LOCK UP. USE THE "C" MEASUREMENT. **NOTE** ELITE ACCESS SYSTEMS, INC. IS NOT RESPONSIBLE FOR IMPROPER INSTALLATIONS OR FAILURE TO COMPLY WITH LOCAL BUILDING CODES. DRAWINGS ARE NOT TO SCALE.

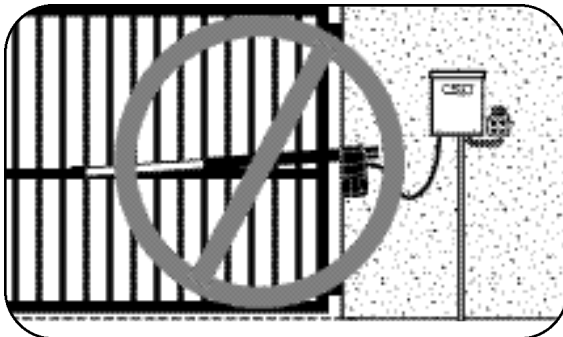
STEP BY STEP INSTALLATION



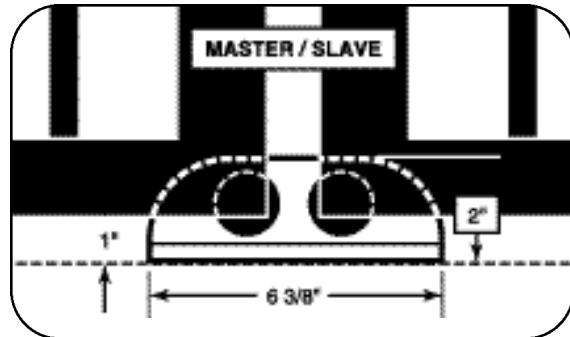
STEP 1: POSITION **AND LEVEL** THE OPERATOR, BRACKETS AND PLATE (SEE GATE INSTALLATION AND PREPARATION). TACK WELD PLATE AND BRACKETS IN POSITION.



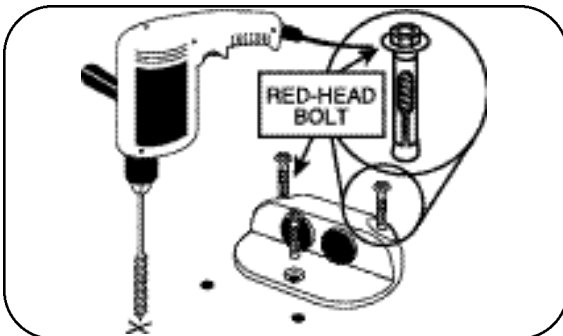
STEP 2: REMOVE OPERATOR AND FULLY WELD THE PLATE AND BRACKETS TOP, BOTTOM AND SIDES. **CAUTION: WELDING WITH OPERATOR IN PLACE MAY DAMAGE THE OPERATOR.**



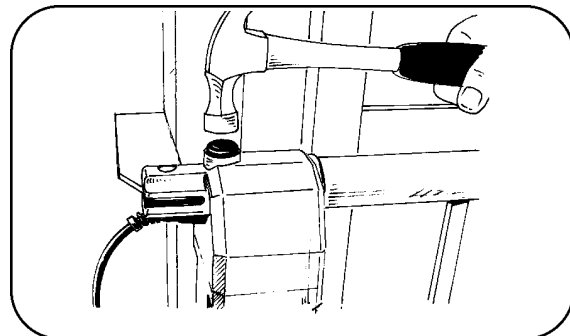
STEP 3: MAKE SURE THE OPERATOR IS LEVEL OR THE OPERATOR WILL NOT FUNCTION PROPERLY. AN OFF-LEVEL INSTALLATION MAY CAUSE THE GATE OR OPERATOR TO FAIL PREMATURELY.



STEP 4: INSTALL THE POSITIVE STOPS FOR OPENING AND CLOSING (THIS IS AN OPTIONAL ITEM - MODEL: "A PSA"). IF STOP IS CUSTOM MADE, USE SOME TYPE OF RUBBER GROMMETS OR PADS TO REDUCE NOISE.

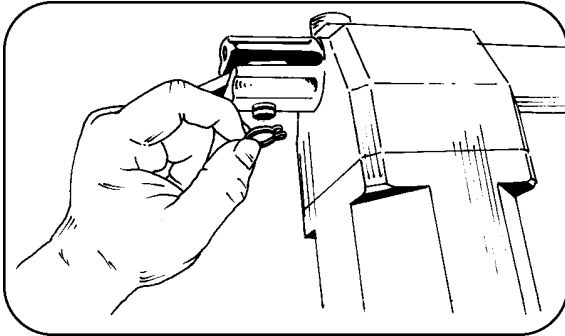


STEP 5: DETERMINE THE LOCATION, MARK AND DRILL THE HOLES. USE 1/2" RED-HEAD BOLTS. **CAUTION: MOUNT THE POSITIVE STOP ON CONCRETE ONLY.**

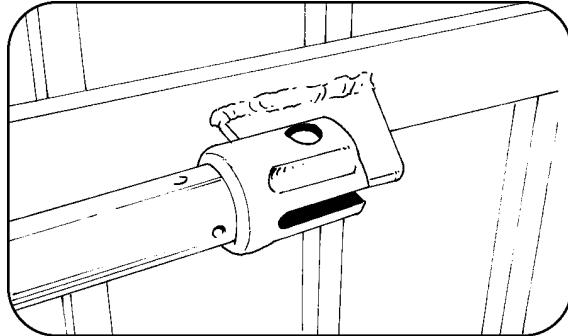


STEP 6: POSITION THE OPERATOR SO THE PLATE ON THE POST FITS BETWEEN THE OPENING AT THE REAR OF THE OPERATOR. ALIGN THE HOLES AND TAP IN ONE PIN.

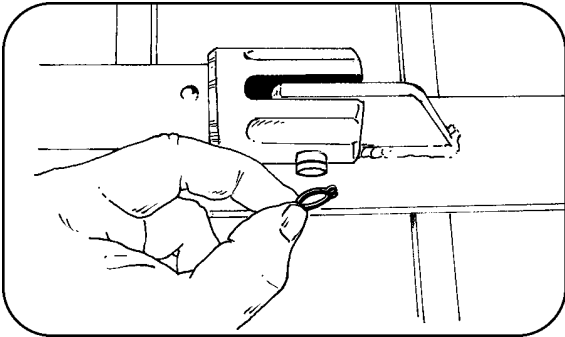
STEP BY STEP INSTALLATION (cont.)



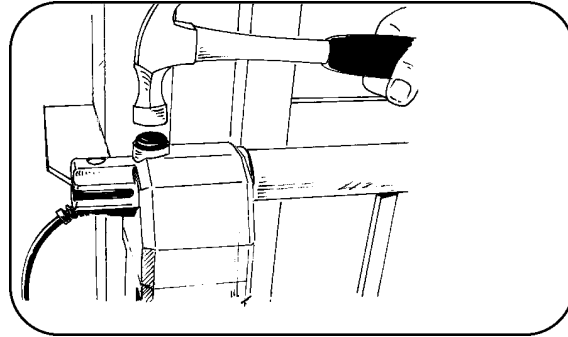
STEP 7: TO SECURE THE PIN, SNAP ON ONE RETAINING CLIP IN THE GROOVE AT THE BOTTOM OF THE PIN.



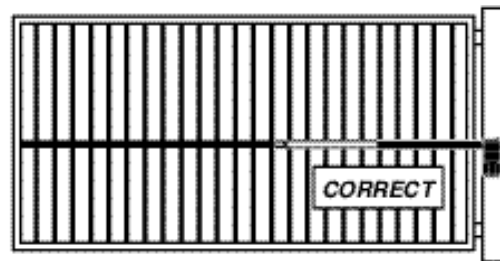
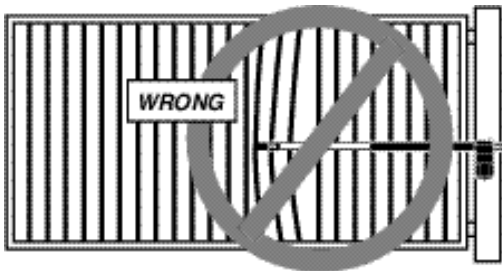
STEP 8: POSITION THE OPERATOR ARM SO THE PLATE ON THE GATE FITS BETWEEN THE OPENING AT THE FRONT OF THE OPERATOR. ALIGN THE HOLES AND TAP IN ONE PIN.



STEP 9: TO SECURE THE PIN, SNAP ON ONE RETAINING CLIP IN THE GROOVE AT THE BOTTOM OF THE PIN.

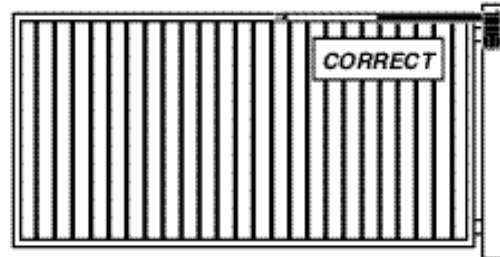


STEP 10: GENTLY TAP IN PLACE THE PLASTIC KEY RELEASE COVER. NOT MANDATORY.



PLACEMENT OF ELITE ACTUATOR-1 ON GATE

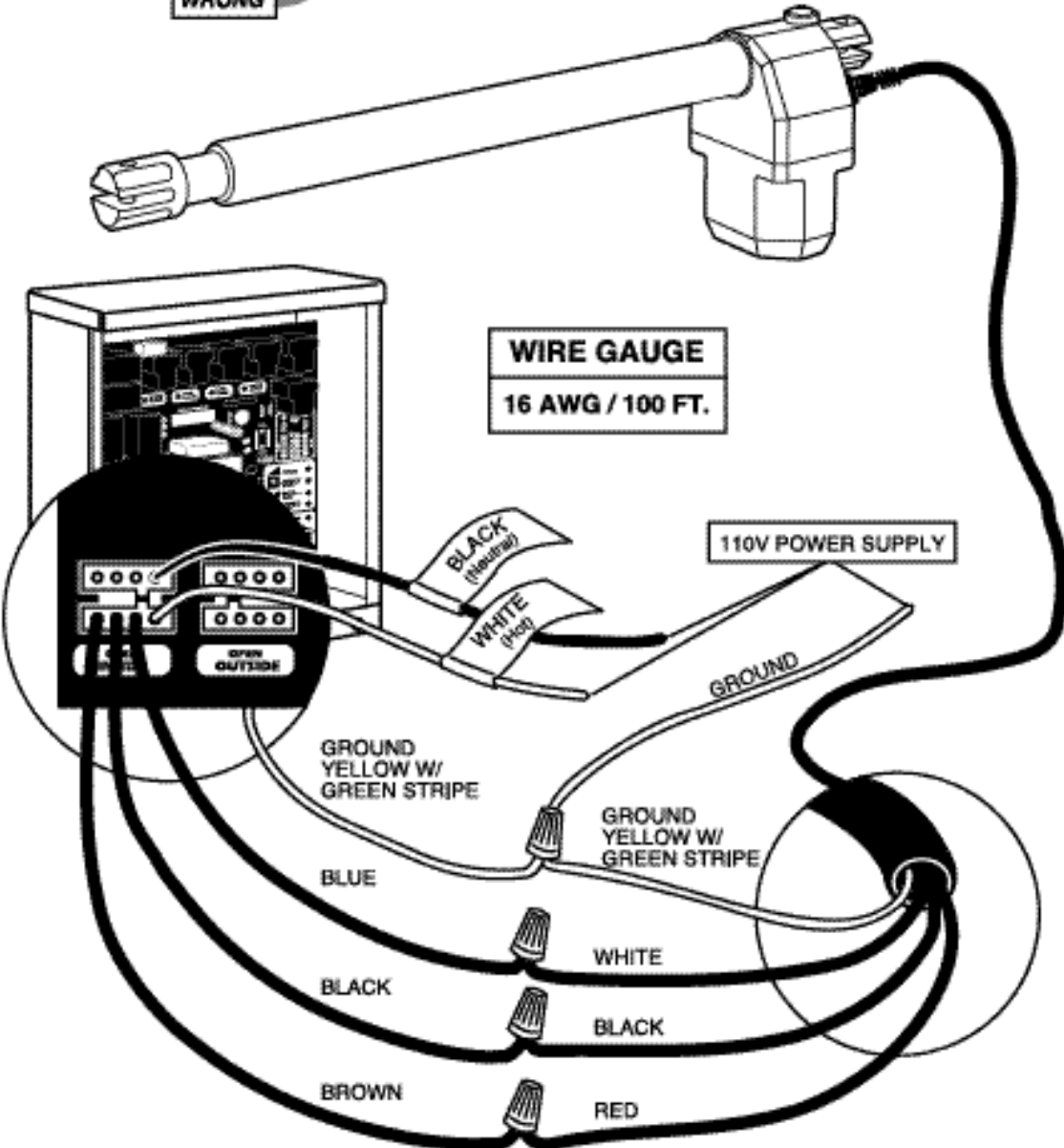
FOR STRENGTH PURPOSES, THE FRONT BRACKET MUST BE WELDED IN AN AREA THAT CAN WITHSTAND HEAVY FORCES. DO NOT WELD A CROSS BAR ON JUST A FEW PICKETS OR THE PICKETS WILL BEND. WELD A CROSS BAR ACROSS ALL OF THE PICKETS OR WELD THE FRONT BRACKET AT THE TOP OF THE GATE DIRECTLY TO THE FRAME.



CONNECTING POWER
SINGLE GATE OPERATOR



CAUTION: DO NOT BEND THE WIRE CONNECTION FROM THE OPERATOR. TO DO SO WILL CAUSE THE WIRES TO EVENTUALLY BREAK.

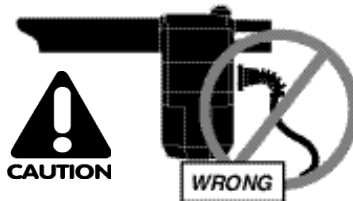
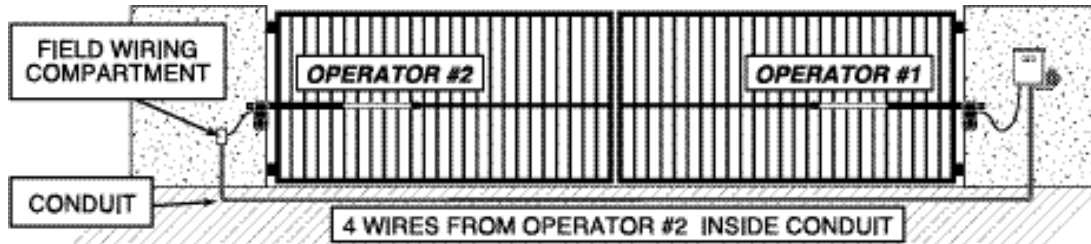


WIRE GAUGE
16 AWG / 100 FT.

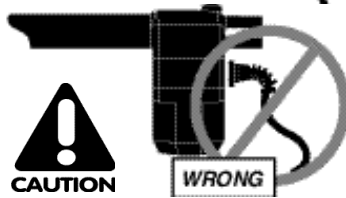
110V POWER SUPPLY

PROPER GROUNDING IS IMPORTANT

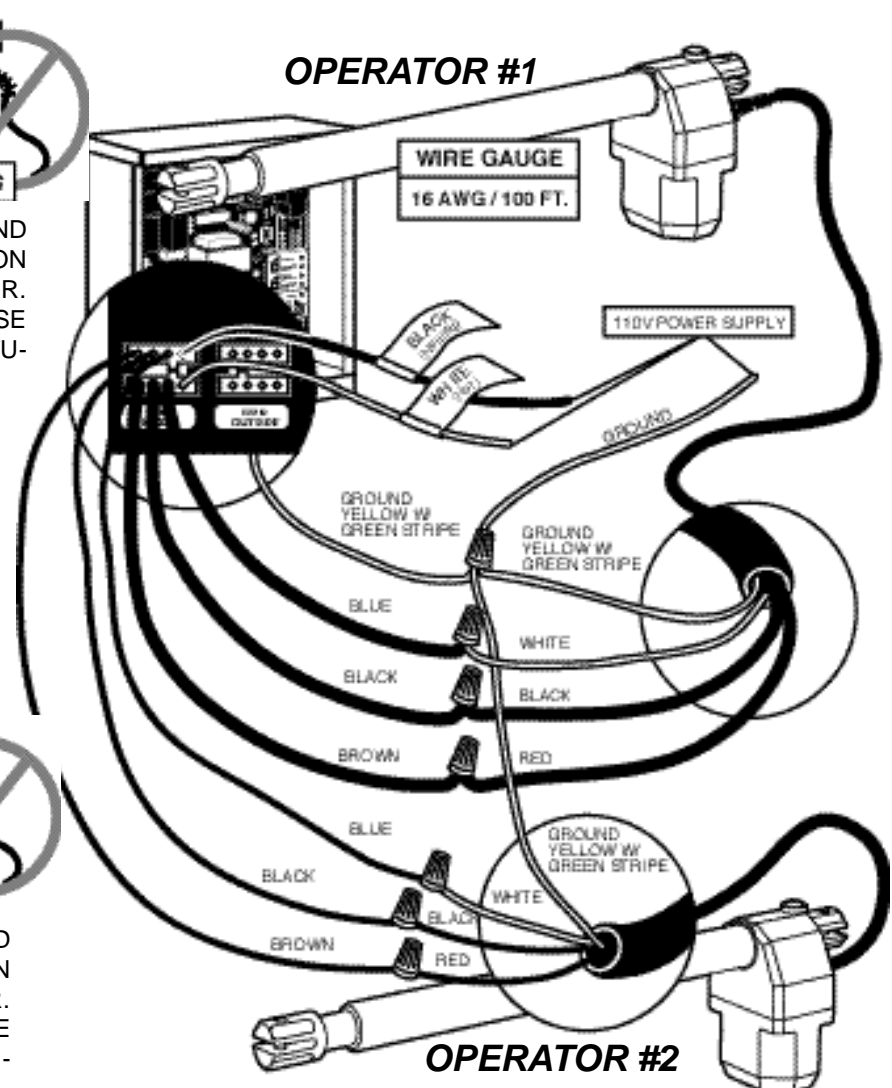
CONNECTING POWER MASTER / SLAVE



CAUTION: DO NOT BEND THE WIRE CONNECTION FROM THE OPERATOR. TO DO SO WILL CAUSE THE WIRES TO EVENTUALLY BREAK.

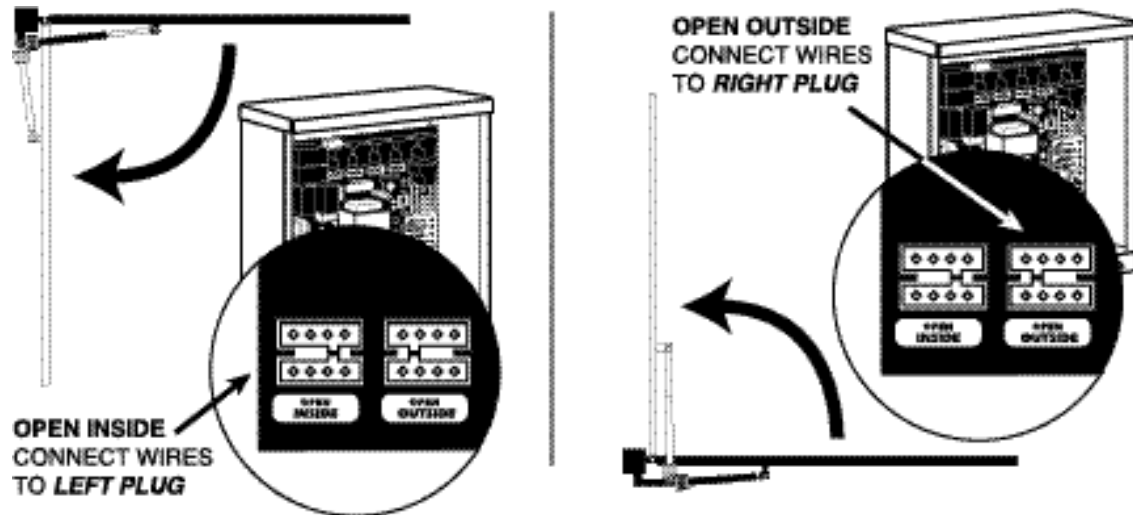


CAUTION: DO NOT BEND THE WIRE CONNECTION FROM THE OPERATOR. TO DO SO WILL CAUSE THE WIRES TO EVENTUALLY BREAK.



PROPER GROUNDING IS IMPORTANT

CHOOSING MOVEMENT DIRECTION

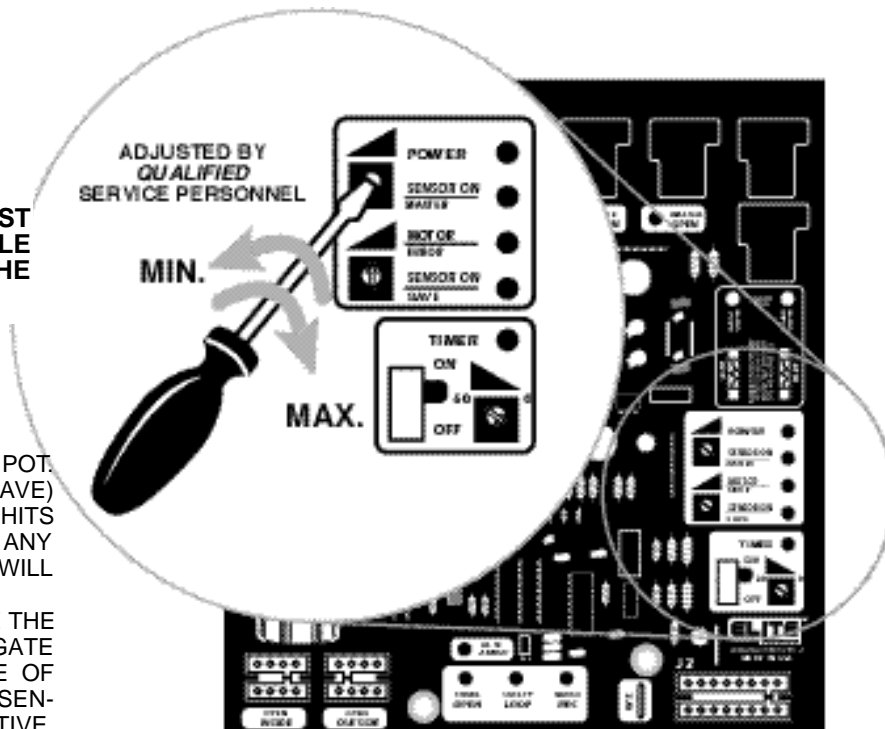


CURRENT SENSOR ADJUSTMENT

CAUTION
 THE SENSORS MUST BE ADJUSTED WHILE THE GATE IS IN THE OPENING CYCLE.

ADJUST THE SENSOR POT. FOR MASTER (OR SLAVE) SO WHEN THE GATE HITS THE POSITIVE STOP OR ANY OBJECT THE GATE WILL STOP.

NOTE: IF YOU ACTIVATE THE OPERATOR AND THE GATE STOPS IN THE MIDDLE OF THE DRIVEWAY, THE SENSOR IS SET TOO SENSITIVE.



CHOOSING OPEN/CLOSE SHUT-OFF SYSTEM

The Elite Actuator-1 has two modes of operation that the end user and/or installer can choose from.

Elite recommends Mode One

Mode One: (W1 Jumper ON)

Step 1: Unit reaches the limit.

Step 2: Unit releases the Actuator. (to prevent jamming)

Step 3: Unit stops the Actuator.

Mode Two: (W1 Jumper OFF or cut off)

Step 1: Unit reaches the limit.

Step 2: Unit stops the Actuator.

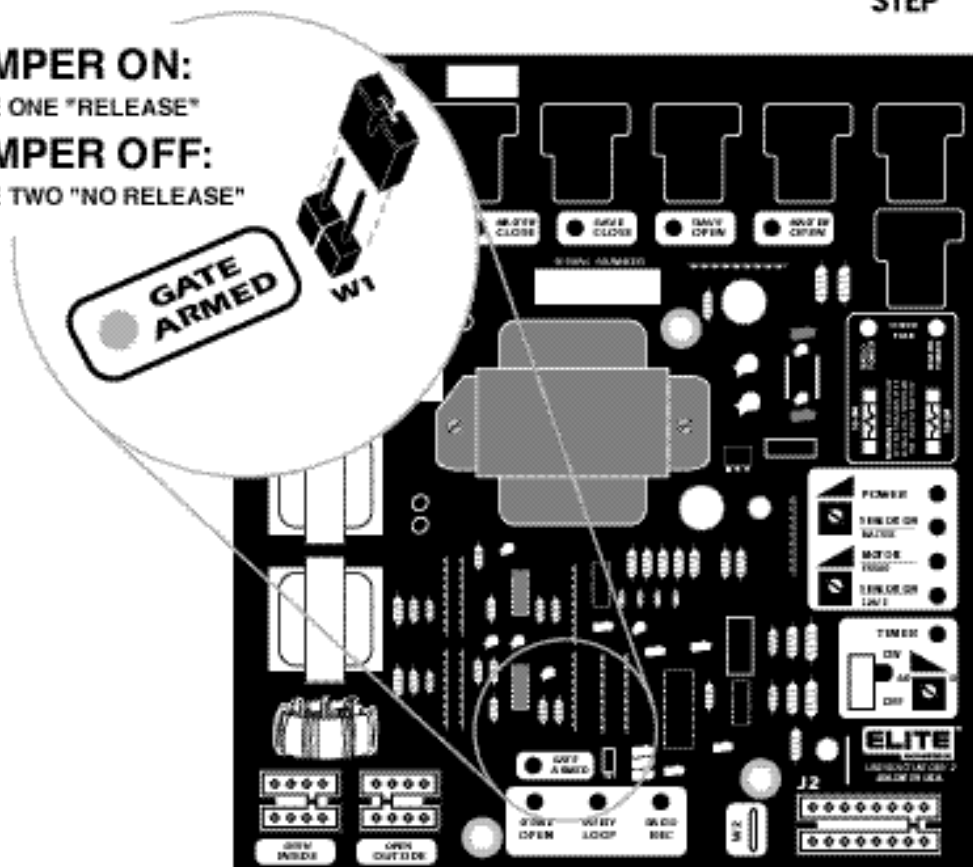


JUMPER ON:

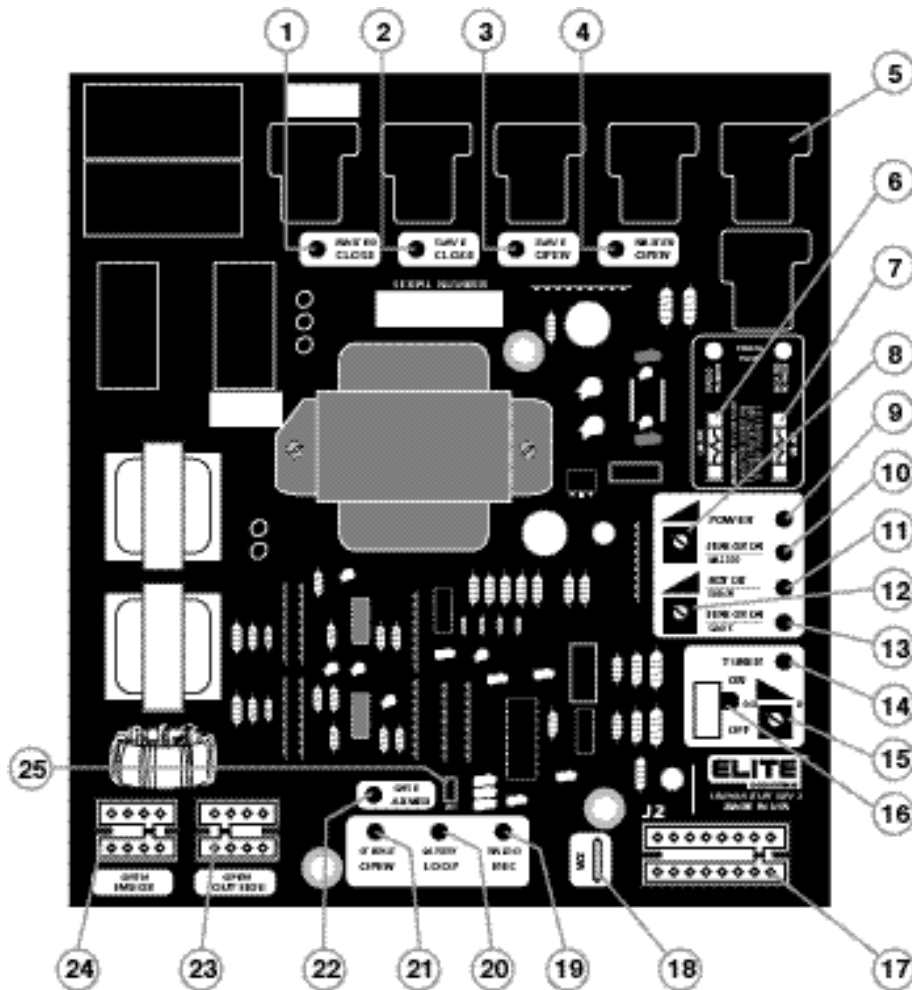
MODE ONE "RELEASE"

JUMPER OFF:

MODE TWO "NO RELEASE"

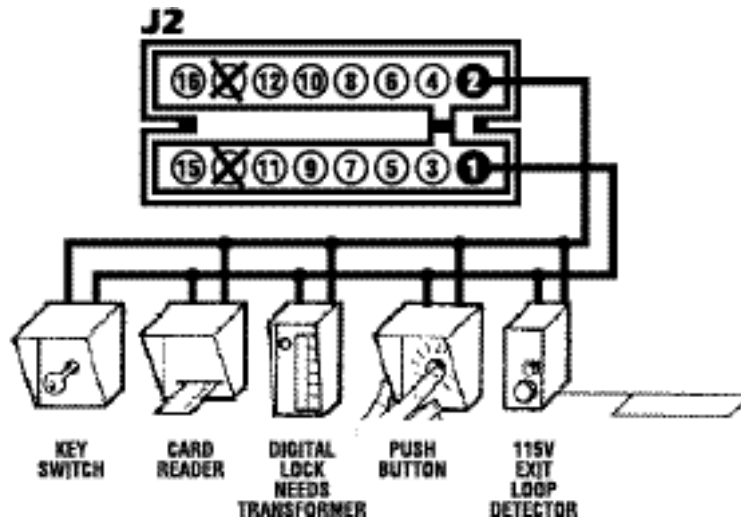


CONTROL BOARD OPERATION

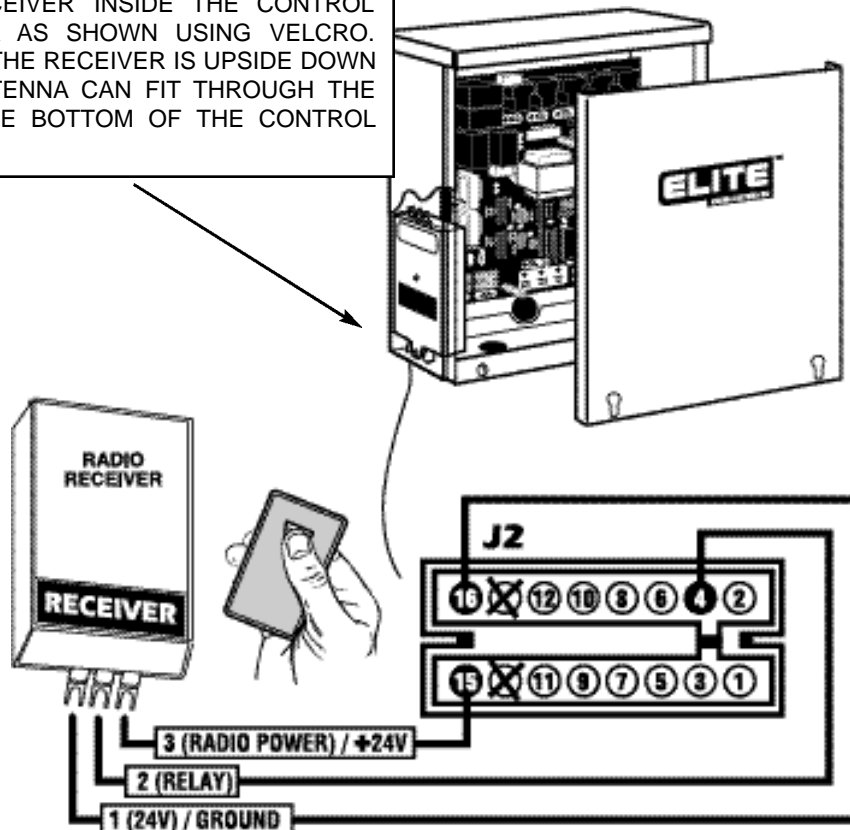


- | | |
|---------------------------|------------------------------|
| 1. Master Close Relay LED | 14. Timer LED |
| 2. Slave Close Relay LED | 15. Timer Pot / 0 to 45 sec. |
| 3. Slave Open Relay LED | 16. Timer On/Off Switch |
| 4. Master Open Relay LED | 17. J2 Plug |
| 5. Auxiliary torque | 18. W2 Jump Wire |
| 6. Radio Power Fuse | 19. Radio Receiver LED |
| 7. Board Power Fuse | 20. Safety Loop LED |
| 8. Master Sensor Pot | 21. Strike Open LED |
| 9. Power LED | 22. Gate Armed LED / Alarm |
| 10. Master Sensor On LED | 23. Plug / Open Outside |
| 11. Motor Error LED | 24. Plug / Open Inside |
| 12. Slave Sensor Pot | 25. Shut-off mode Jumper |
| 13. Slave Sensor On LED | |

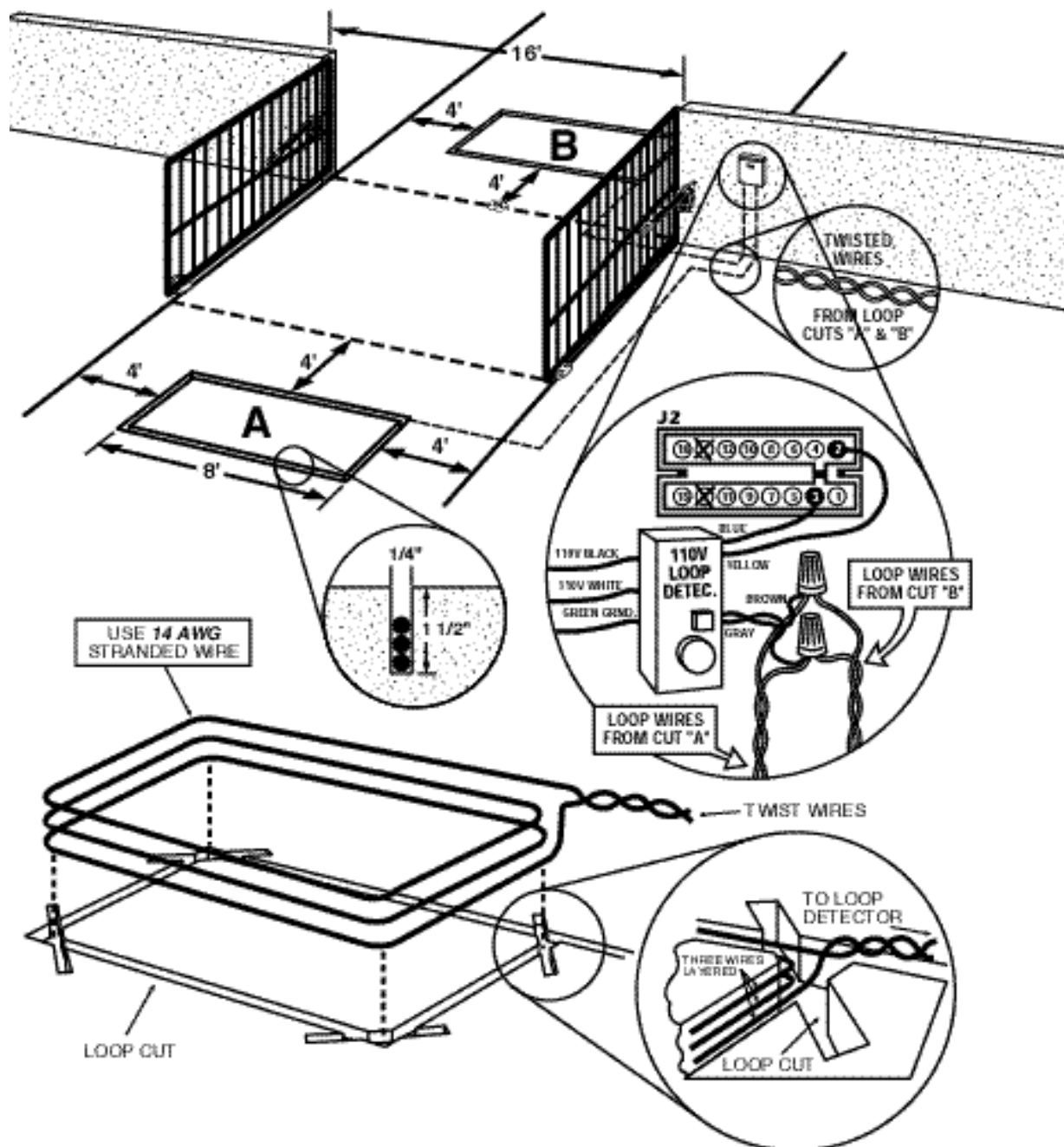
DRY CONTACT & RECEIVER WIRING



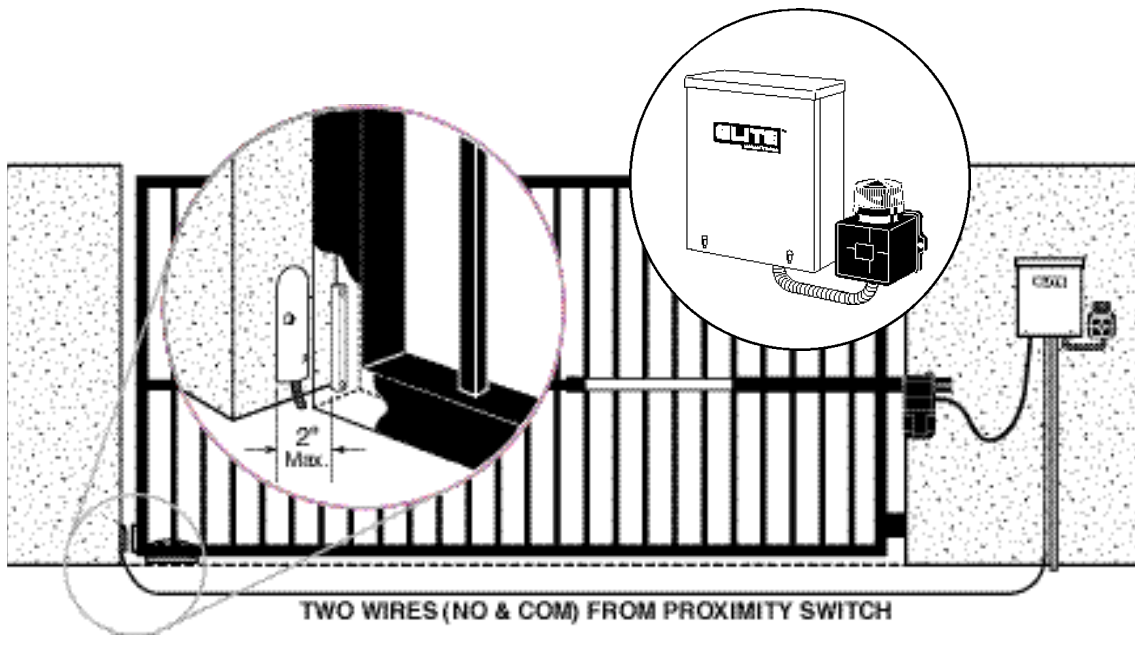
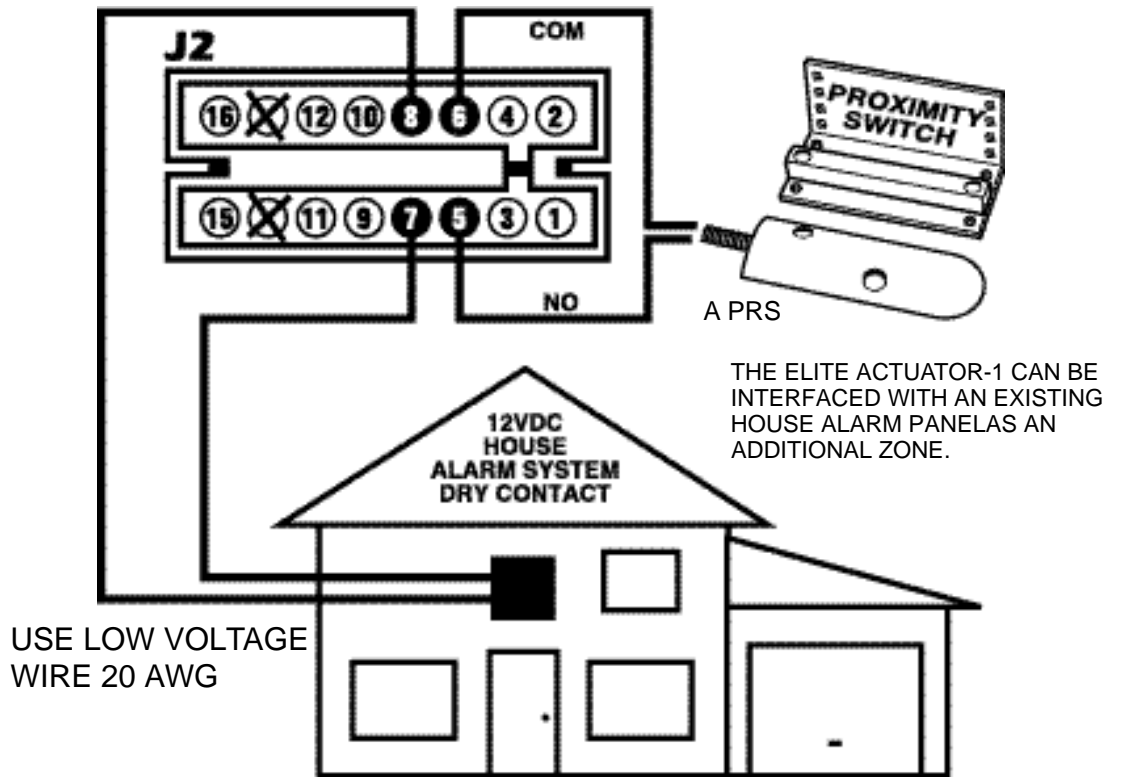
MOUNT RECEIVER INSIDE THE CONTROL BOARD BOX AS SHOWN USING VELCRO. NOTE THAT THE RECEIVER IS UPSIDE DOWN SO THE ANTENNA CAN FIT THROUGH THE HOLE AT THE BOTTOM OF THE CONTROL BOARD BOX.



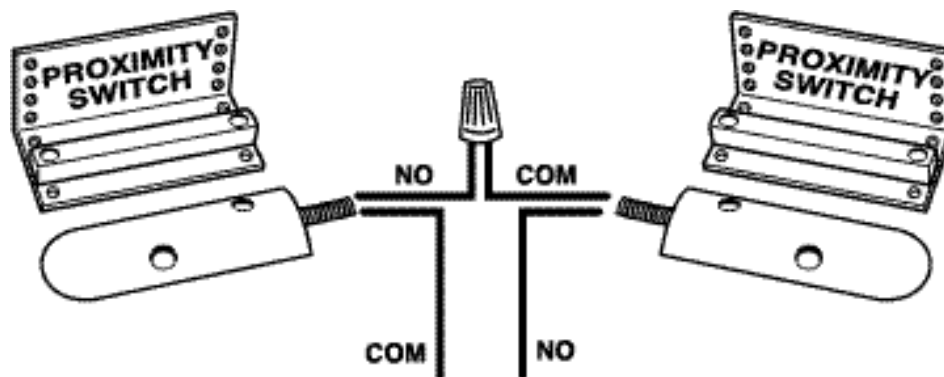
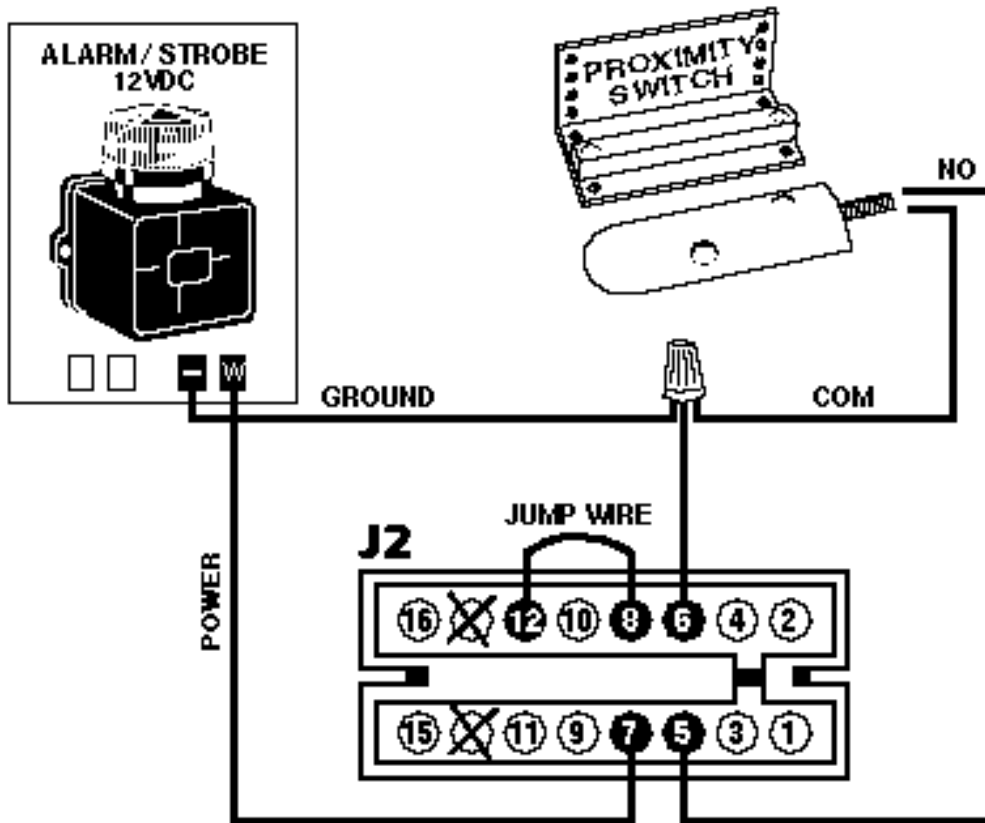
SAFETY LOOP INSTALLATION



INTERFACING WITH HOUSE ALARM

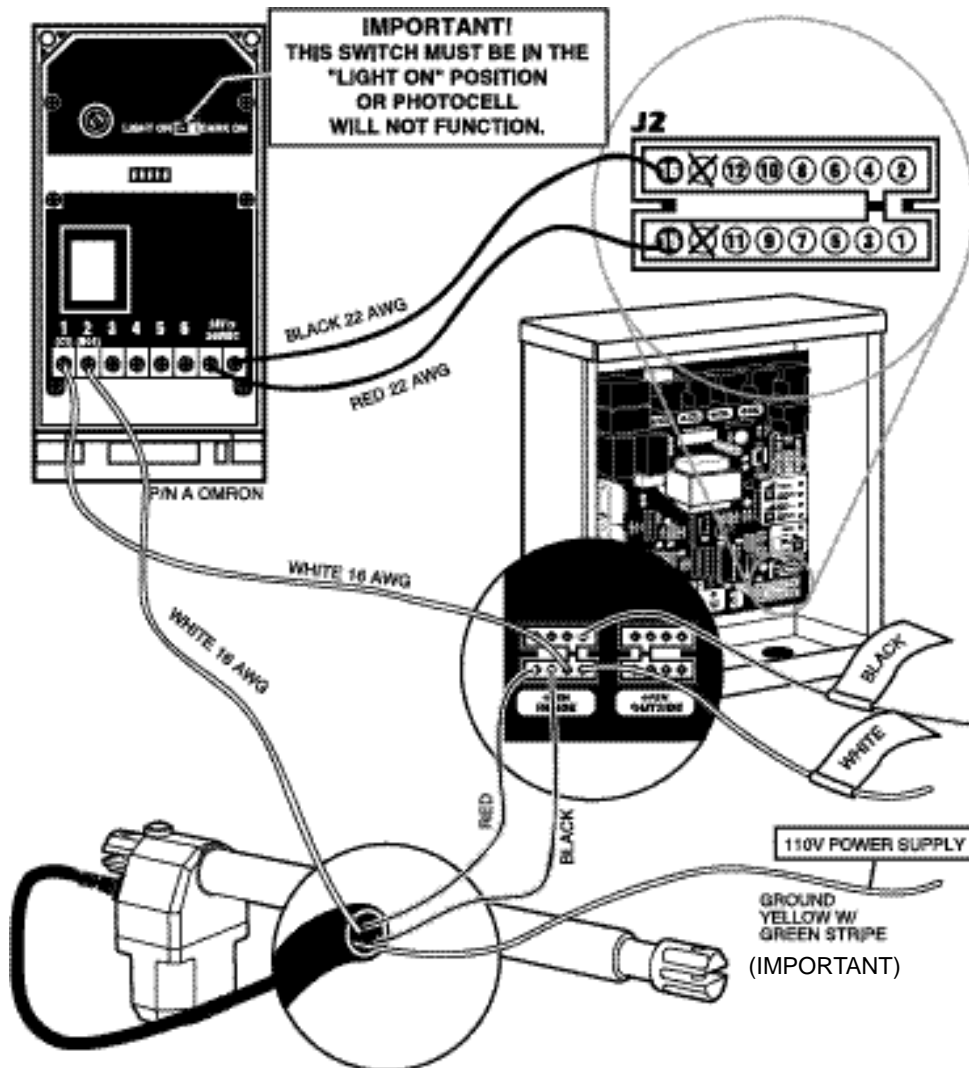
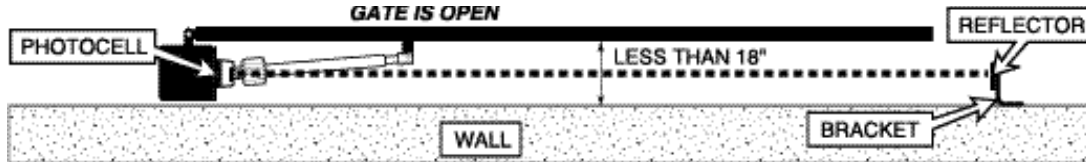


OPTIONAL ALARM & STROBE LIGHT

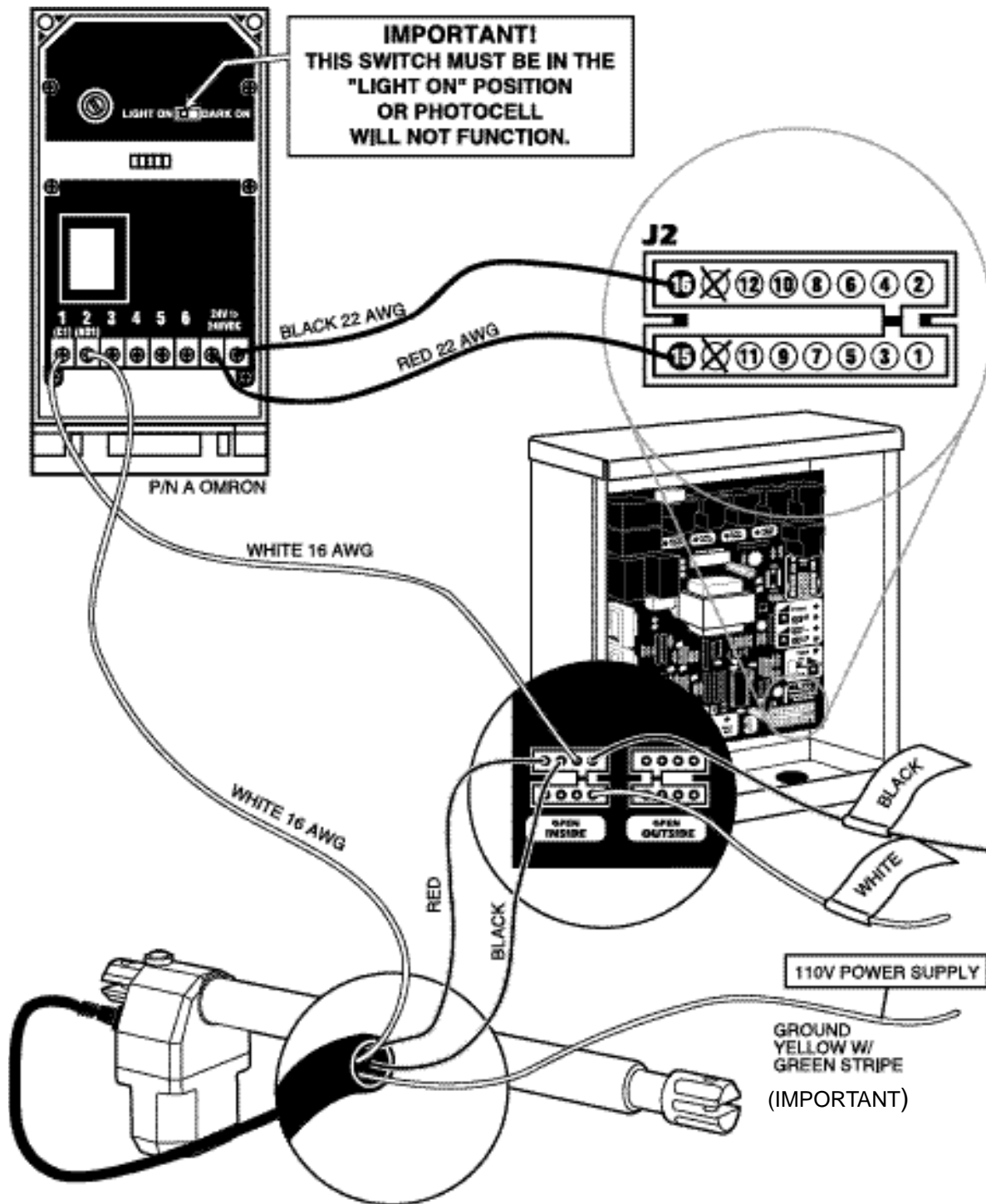


PHOTOCELL INSTALLATION MASTER (or single gate operator)

TO REDUCE THE RISK OF INJURY, ELITE **HIGHLY RECOMMENDS** INSTALLING A PHOTOCELL SENSOR WHEN THE GATE OPENS TO LESS THAN 18" FROM A WALL OR ANY OTHER OBJECT. FOLLOW THE INSTALLATION INSTRUCTIONS PROVIDED WITH THE PHOTOCELL SENSOR FOR ACCURATE PLACEMENT OF THE PHOTOCELL AND THE REFLECTOR.



*PHOTOCELL INSTALLATION
SLAVE (or second gate operator)*

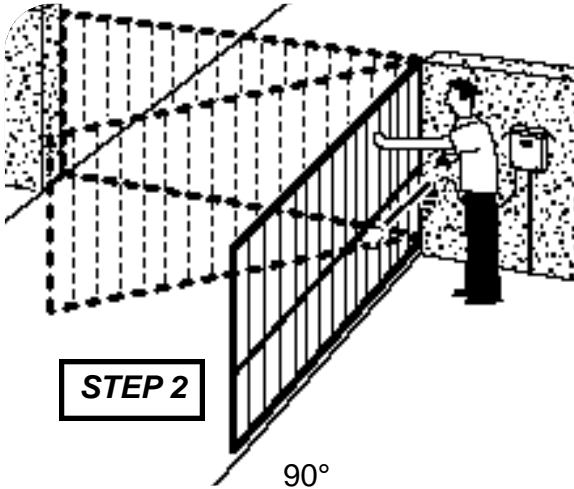
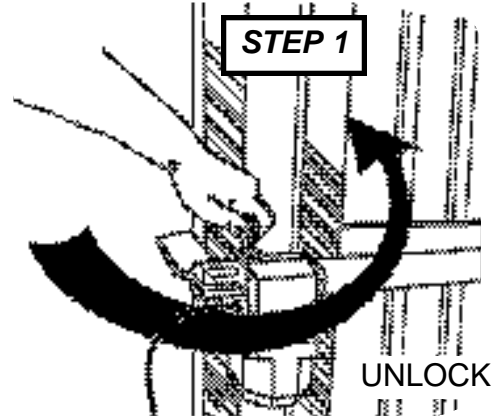


EMERGENCY KEY RELEASE

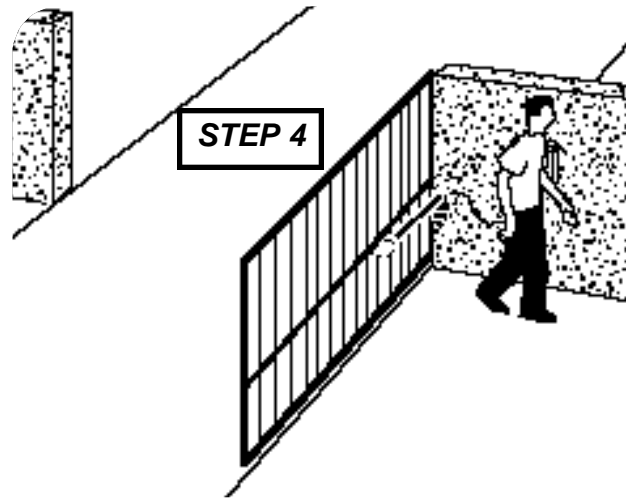
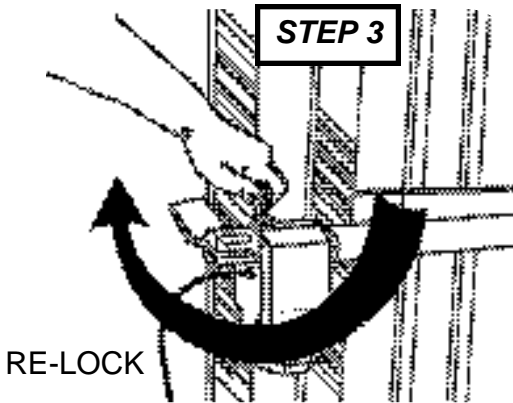


KEY RELEASE
(PROVIDED)

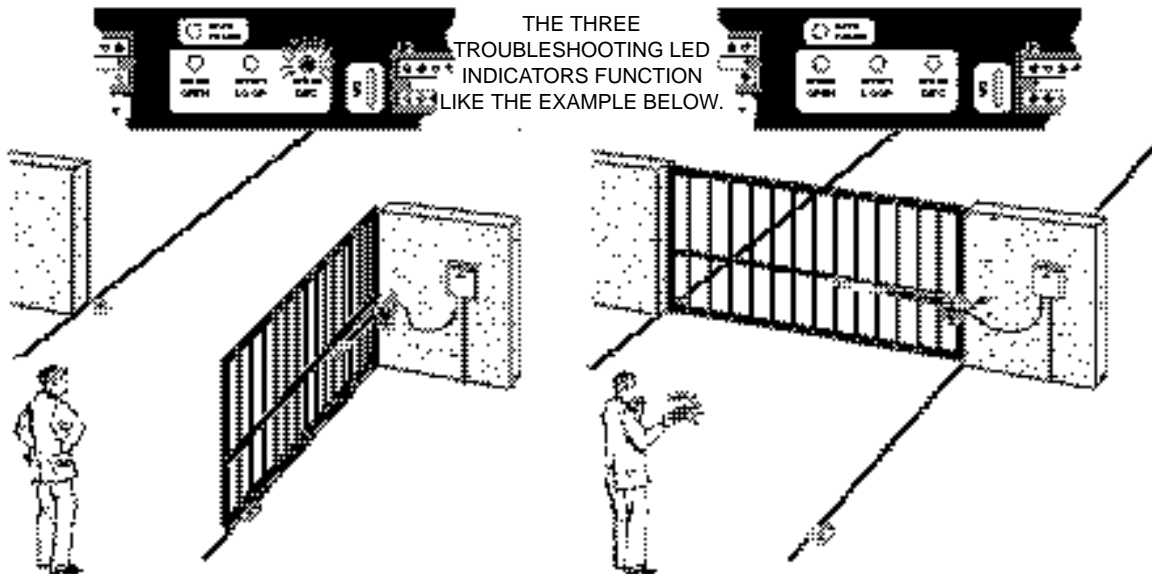
TO MOVE THE GATE DURING AN EMERGENCY OR POWER FAILURE, INSERT THE **KEY RELEASE** (STEP 1) INTO THE KEY RELEASE HOLE ON THE TOP OF THE OPERATOR. TURN THE KEY **COUNTER CLOCKWISE TO RELEASE THE GATE**.



MOVE THE GATE WITH YOUR HAND (STEP 2) TO THE FULL 90° OPENING AND RE-LOCK THE OPERATOR (STEP 3) BY TURNING THE **KEY RELEASE CLOCKWISE**. THE OPERATOR CAN NOW RESUME NORMAL OPERATION AS SOON AS POWER IS RESTORED (STEP 4).



TROUBLESHOOTING



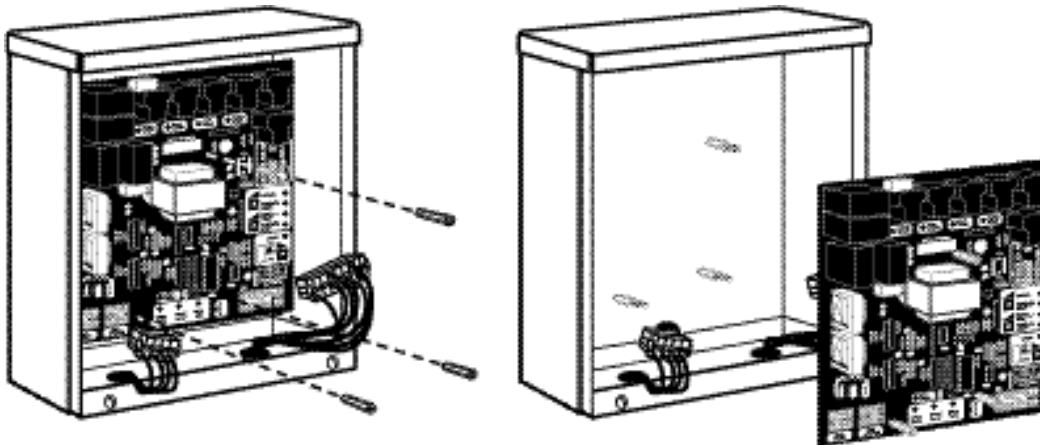
EXAMPLE:

THE RADIO RECEIVER LIGHT IS **ON**, AND THE GATE IS STAYING OPEN. THIS MEANS THE RADIO RECEIVER IS BROKEN IN THE "ON" POSITION.

EXAMPLE:

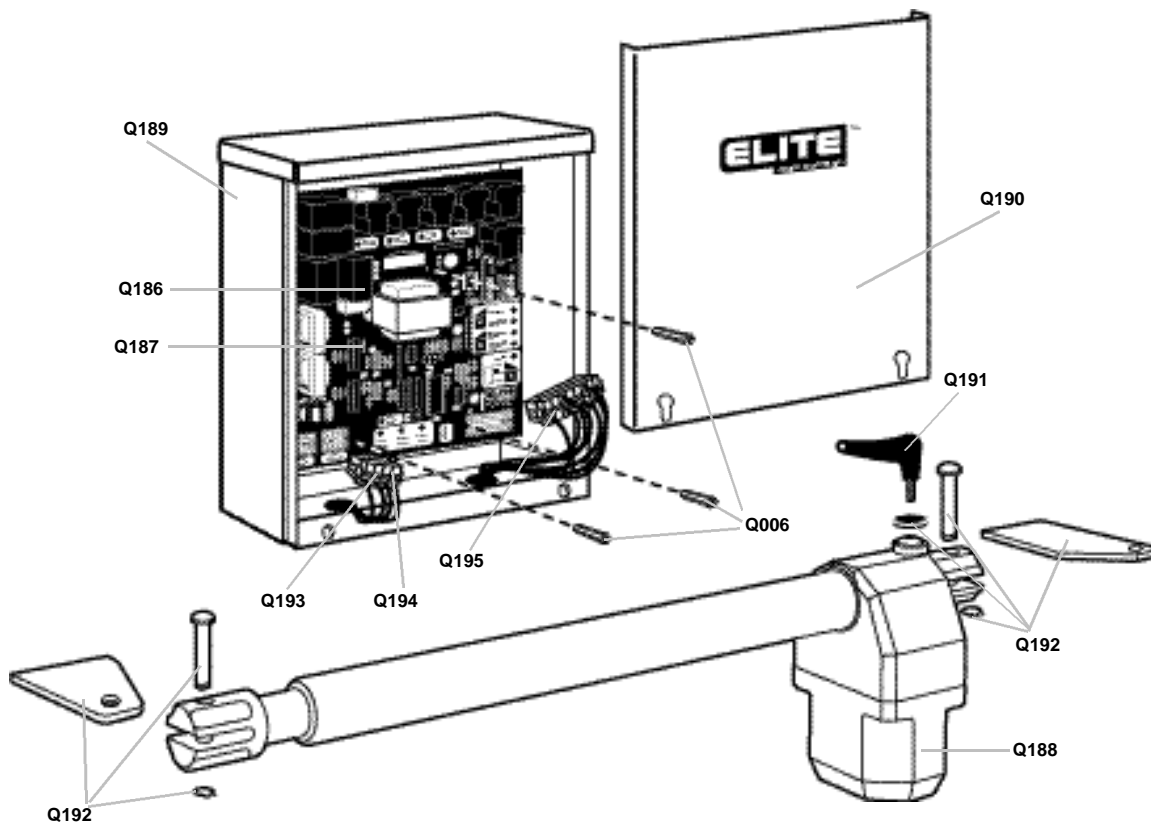
THE RADIO RECEIVER LIGHT IS **NOT ON** AND THE GATE WILL NOT OPEN WITH THE TRANSMITTER. THIS MEANS THE RADIO IS BROKEN IN THE "OFF" POSITION.

HOW TO REMOVE CONTROL BOARD



DETACH THE **OPEN INSIDE** (OR OPEN OUTSIDE) PLUG AND THE **J2** PLUG. REMOVE THE THREE, LONG HEX-SHAPED NUTS AND REMOVE CONTROLBOARD. REVERSE THIS PROCESS TO INSTALL THE CONTROL BOARD.

ELITE ACTUATOR-1™ PARTS LIST



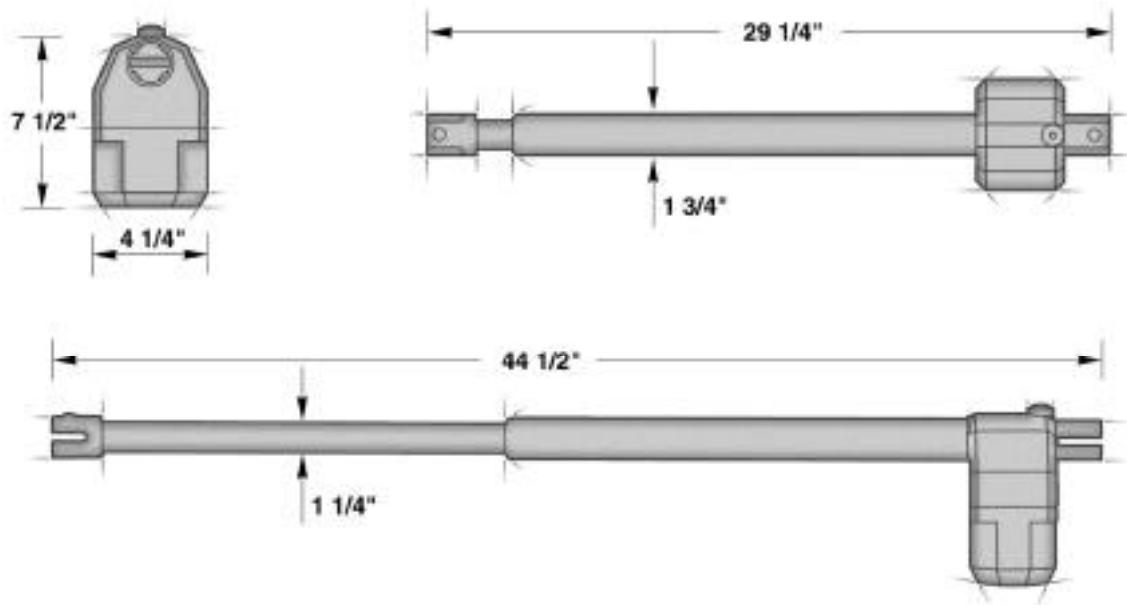
Q006 - Control Board Nuts (set)
Q186 - Master Slave Control Board
Q187 - Single Control Board
Q188 - Operator
Q189 - Control Board Box
Q190 - Cover
Q191 - Key Release

Q192 - Front Mounting Plate, Retaining
Rings, Pins, Back Mounting
Plate, and Key Release Cover
Q193 - Act-1 Motor Harness
Q194 - Act- M/S Motor Harness
Q195 - Act- Radio & Accessory Harness

MAINTENANCE

THE ELITE ACTUATOR-1™ IS DESIGNED TO BE VERY LOW IN MAINTENANCE. YOU MAY HAVE TO PERIODICALLY GREASE HINGES ON YOUR GATE. ANY SERVICE MUST BE PERFORMED BY AN AUTHORIZED SERVICE TECHNICIAN.

FEATURES AND SPECIFICATIONS



MOTOR - 120V, 60Hz, 3 amp - automatic reset system.

WORM GEAR REDUCTION - 27:1, Steel and alloy bronze gears.

CYCLES - Complete 90° cycle - 30 per hour with ambient temp. of 90°.

CAPABILITIES - Maximum gate size 14' wide, 500 lbs.

TRAVEL SPEED - 18 to 21 seconds 90° opening.

DIMENSIONS - L (open) 44 1/2", L (closed) 29 1/4", H 7 1/2", W 4 1/2".

SENSOR - Causes the gate to stop when it makes contact with an object while opening or closing.

TORQUE - 450 lbs. of torque.

MODULAR BOARD - Uses LEDs to indicate all input and output functions of the gate operator including motor error.

OUTPUT SHAFT - 1 1/4" stainless steel.

FINISHING - Aluminum die-cast body with epoxy paint and stainless steel shaft for excellent corrosion resistance.

EMERGENCY RELEASE - Convenient key release to operate the gate manually in case of power failure.