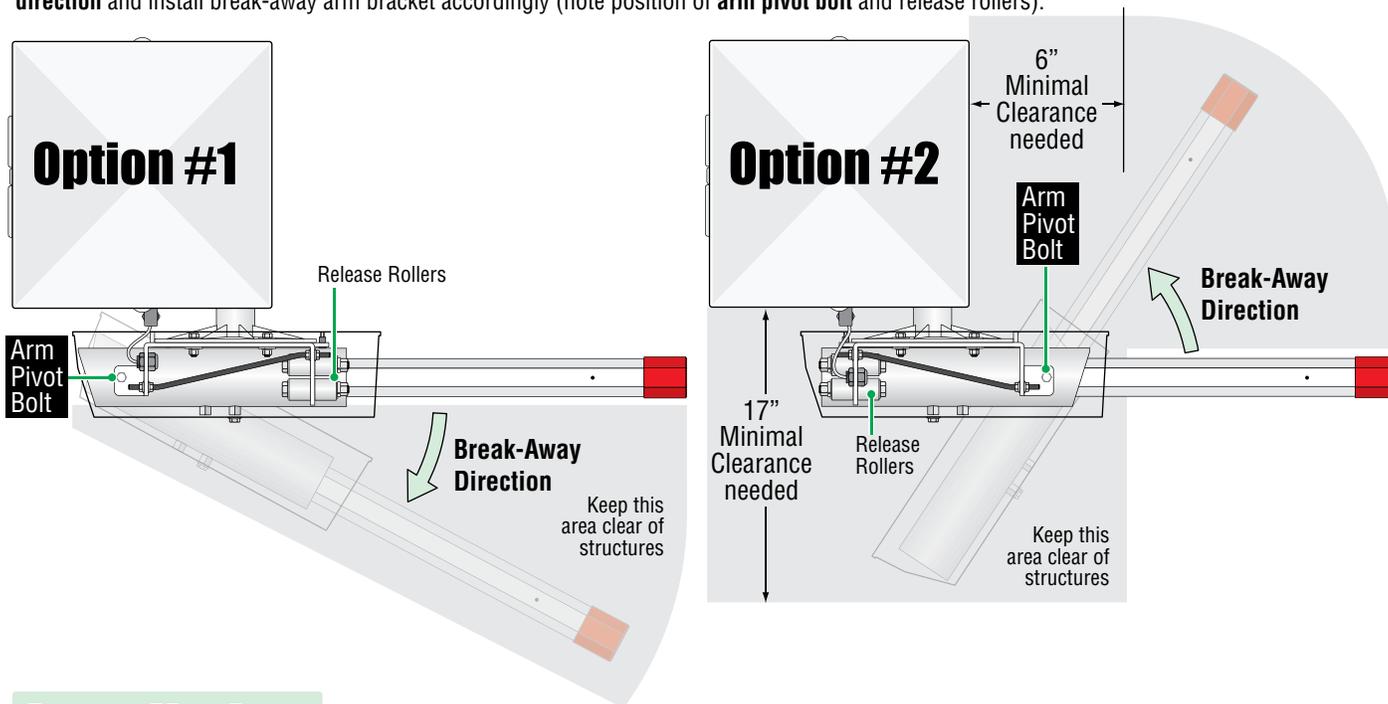


1601 BREAK-AWAY OCTAGON ARM INSTALLATION KIT

This kit is designed for a 1601 barrier gate operator **WITHOUT convenience open ONLY**. It **CANNOT** be used with a 1602 or 1603 operators. The kit provides a break-away bracket assembly for a **octagon arm with OR without reverse/LED edge ONLY**. When the arm is raised, LEDs turn **GREEN**, and turns **RED** when lowered and remains **RED** in the down position. Arm will reverse if lowering and a obstruction is encountered. If the arm is struck and breaks away (pivots in **ONE DIRECTION ONLY**, see below), gate operator will automatically shut down. The arm manually snaps back into the release rollers to function normally again.

Break-Away Arm Direction Options

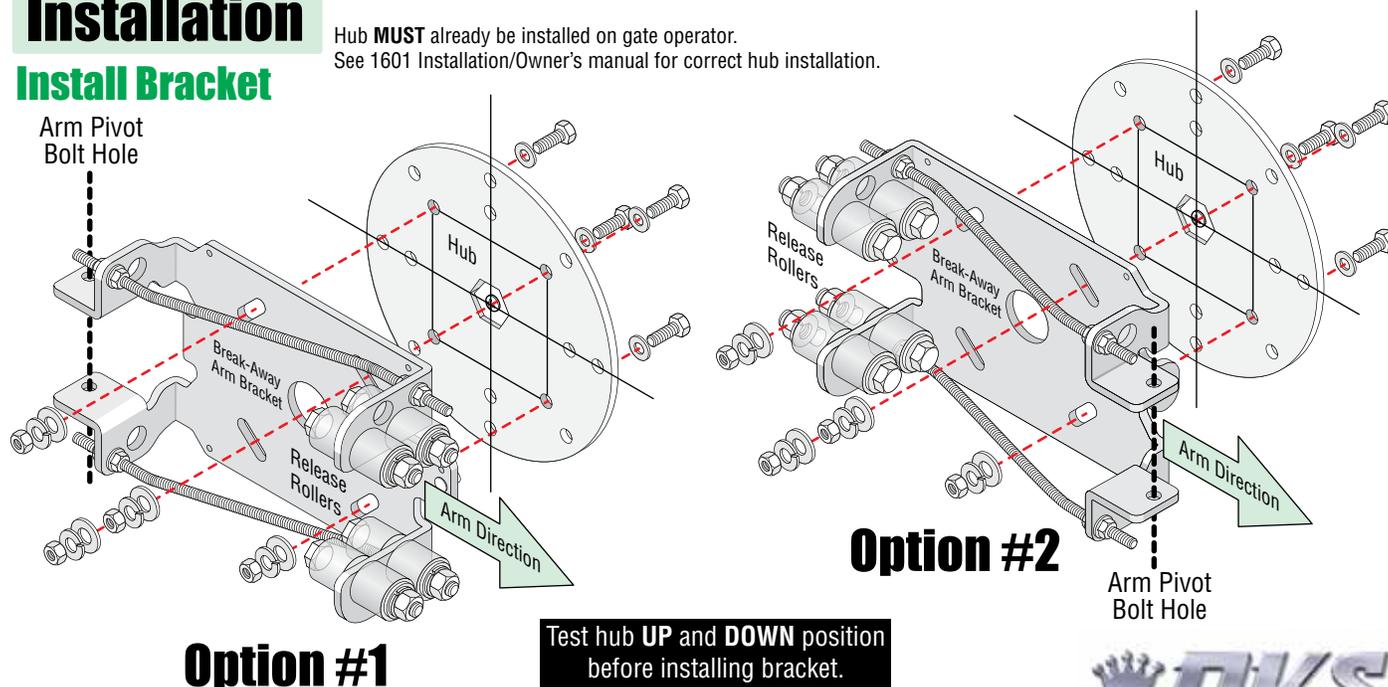
Arm will only pivot in **ONE DIRECTION** depending on which way the break-away arm bracket is installed. **Choose the desired break-away direction** and install break-away arm bracket accordingly (note position of **arm pivot bolt** and release rollers).



Installation

Install Bracket

Hub **MUST** already be installed on gate operator. See 1601 Installation/Owner's manual for correct hub installation.



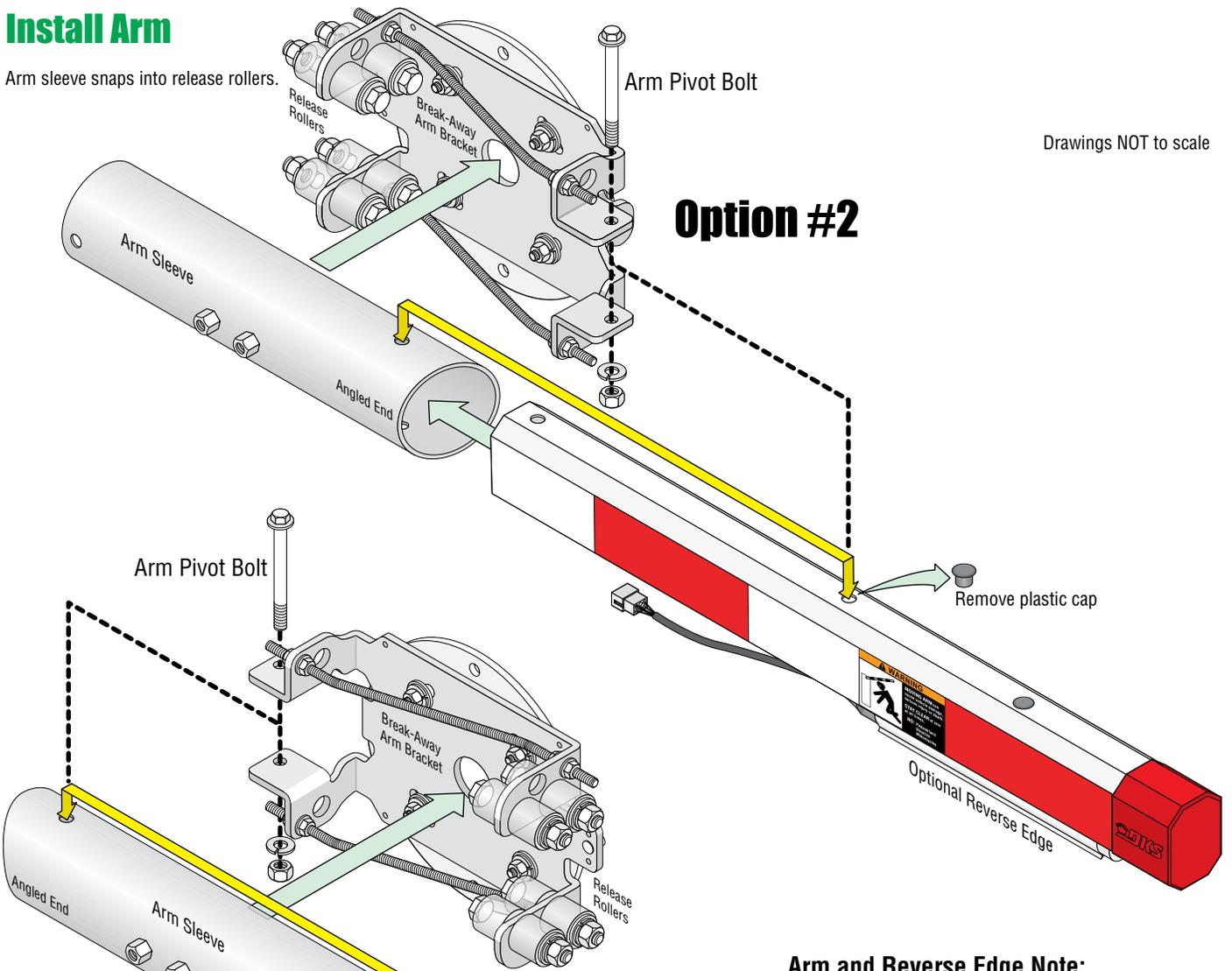
120 S. Glasgow Avenue
Inglewood, California 90301 U.S.A.

Install Arm

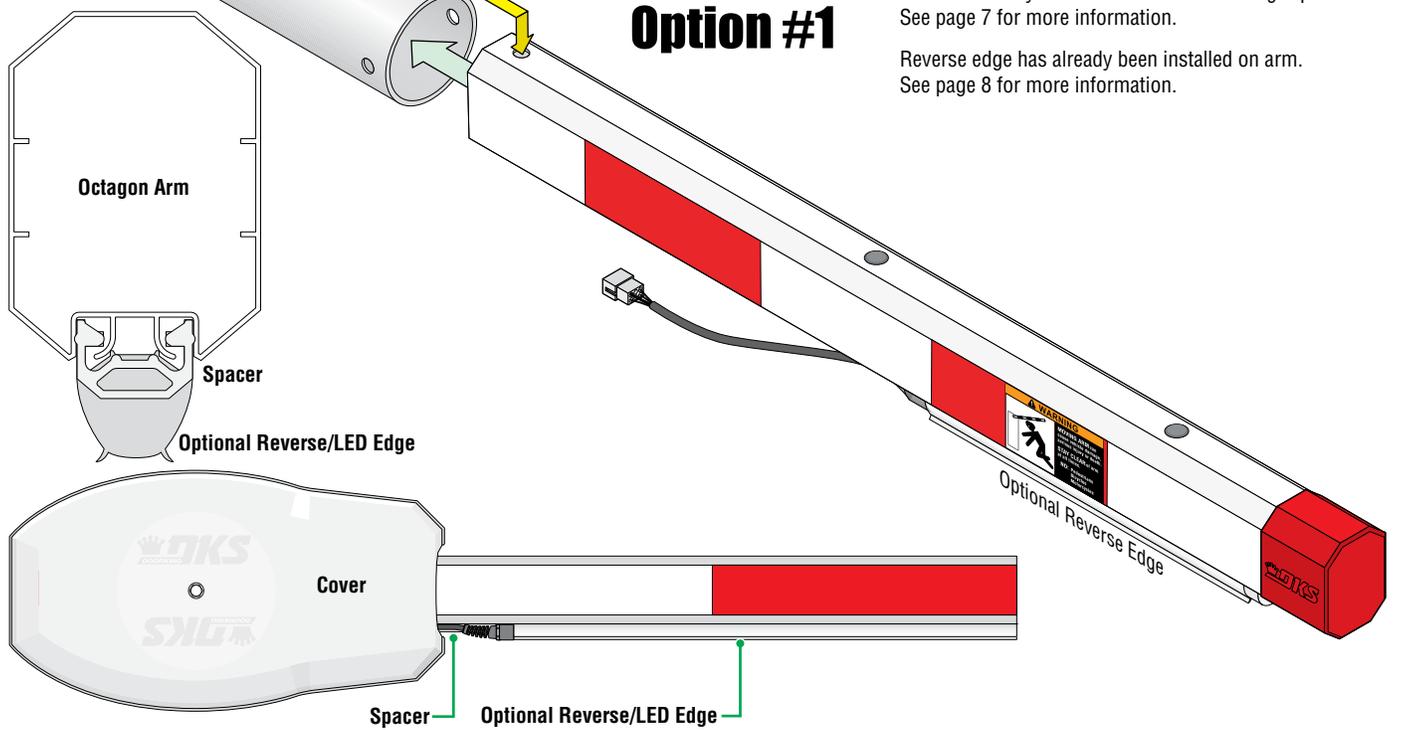
Arm sleeve snaps into release rollers.

Drawings NOT to scale

Option #2



Option #1



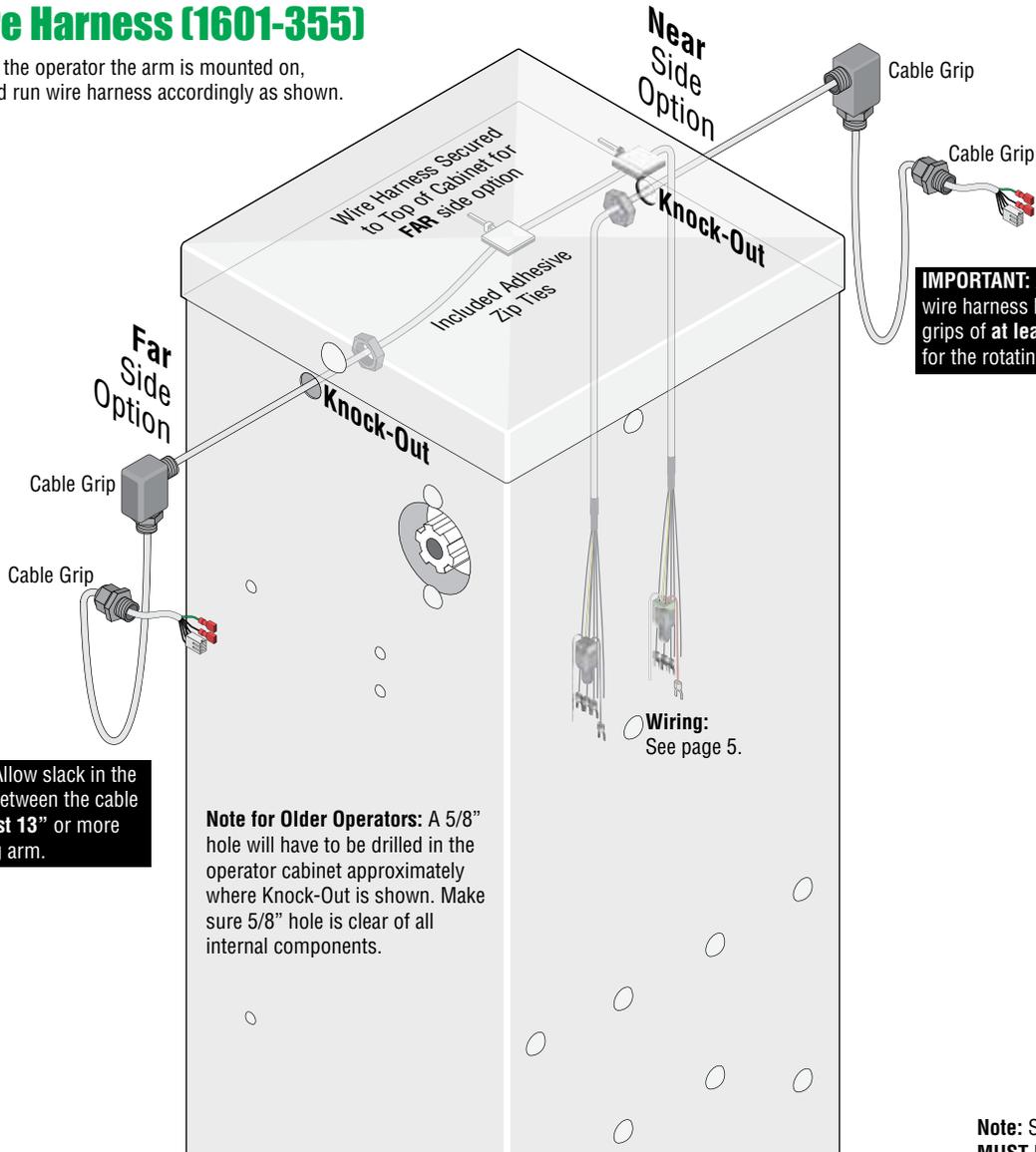
Arm and Reverse Edge Note:

Arm has already been assembled when using 2-piece arm. See page 7 for more information.

Reverse edge has already been installed on arm. See page 8 for more information.

Install Wire Harness (1601-355)

Choose which side of the operator the arm is mounted on, remove knock-out and run wire harness accordingly as shown.



IMPORTANT: Allow slack in the wire harness between the cable grips of at least 13" or more for the rotating arm.

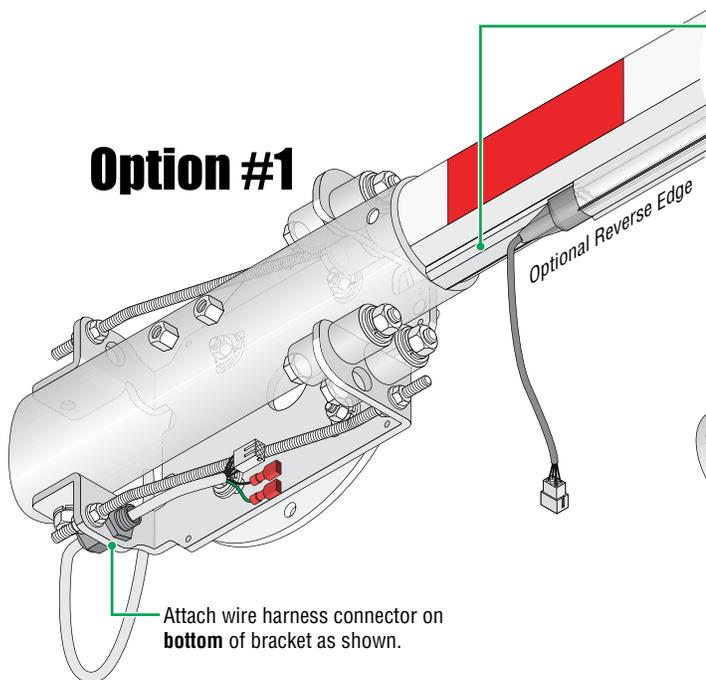
IMPORTANT: Allow slack in the wire harness between the cable grips of at least 13" or more for the rotating arm.

Note for Older Operators: A 5/8" hole will have to be drilled in the operator cabinet approximately where Knock-Out is shown. Make sure 5/8" hole is clear of all internal components.

Wiring:
See page 5.

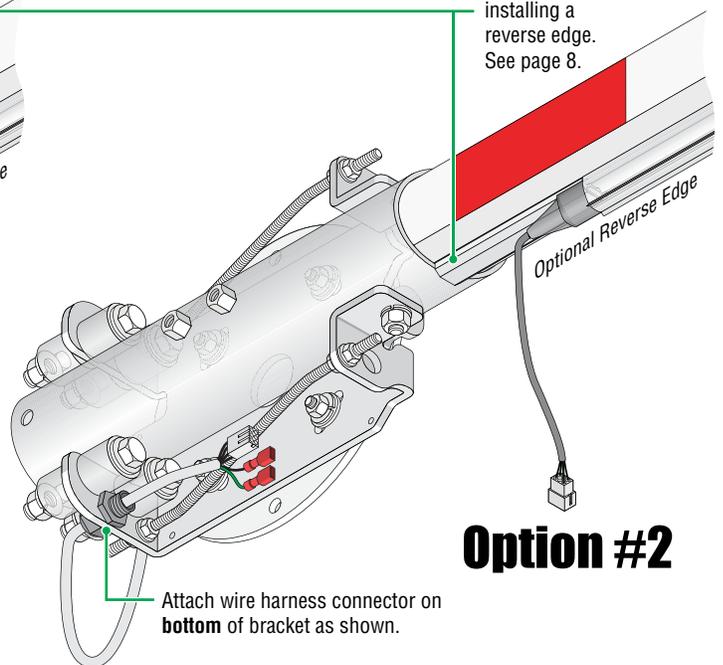
Note: Spacer **MUST** be in position when installing a reverse edge. See page 8.

Option #1



Attach wire harness connector on **bottom** of bracket as shown.

Option #2

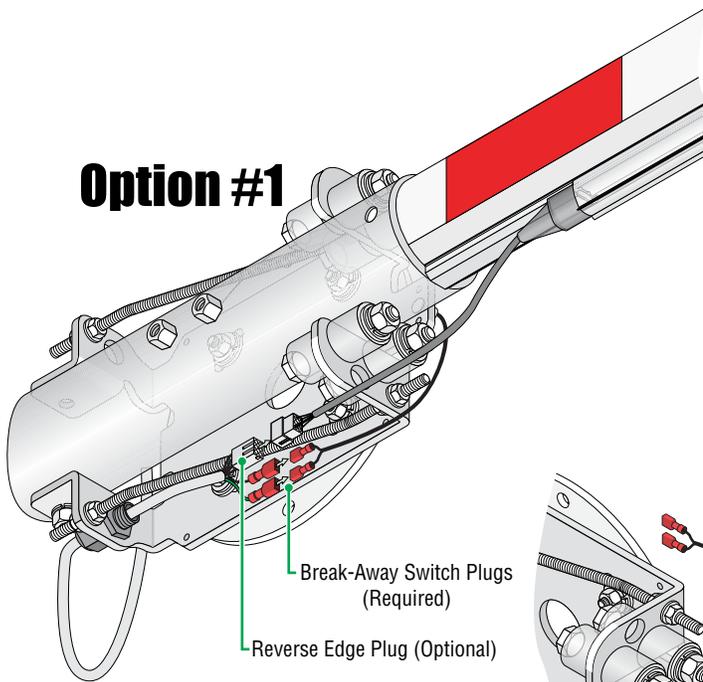


Attach wire harness connector on **bottom** of bracket as shown.

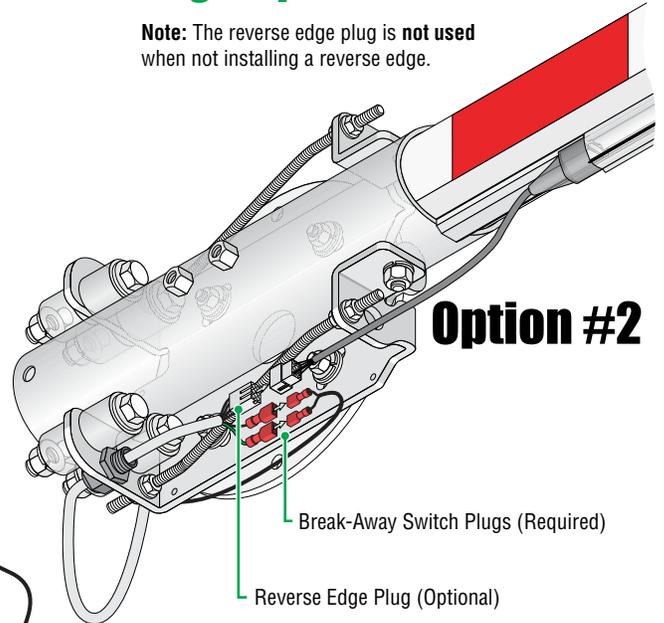
Plug in Break-Away Switch (REQUIRED) and Reverse Edge (Optional)

Note: The reverse edge plug is **not used** when not installing a reverse edge.

Option #1



Option #2



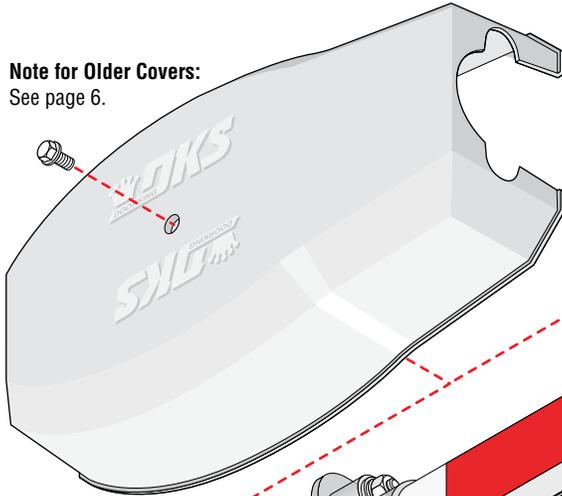
Break-Away Switch (REQUIRED)

IMPORTANT: Break-Away switch is located between the release rollers and **MUST** be connected to wire harness.

DO NOT OPERATE ARM WITHOUT BREAK-AWAY SWITCH FUNCTIONING.

Secure ALL Wires to Bracket and Install Cover

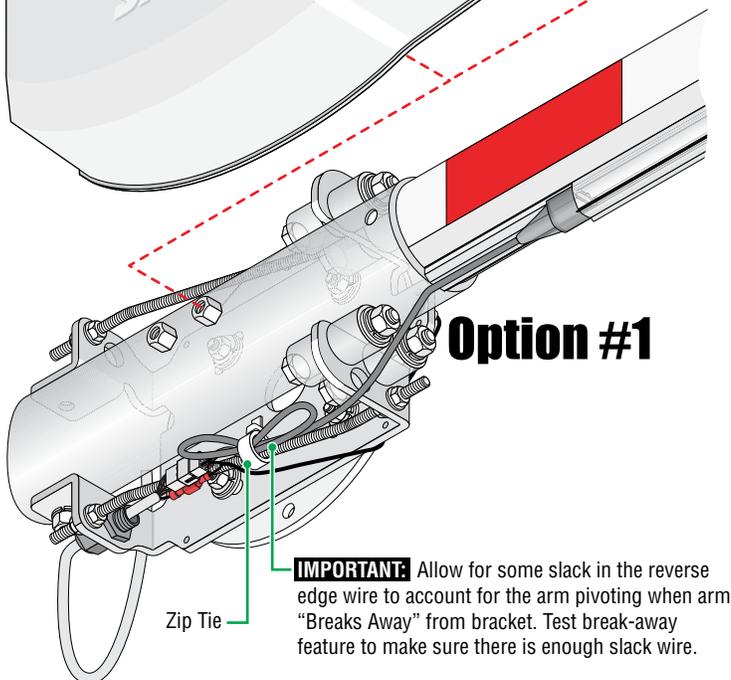
Note for Older Covers:
See page 6.



IMPORTANT:
Make sure that all wires remain clear of the pivoting arm and the plastic cover.

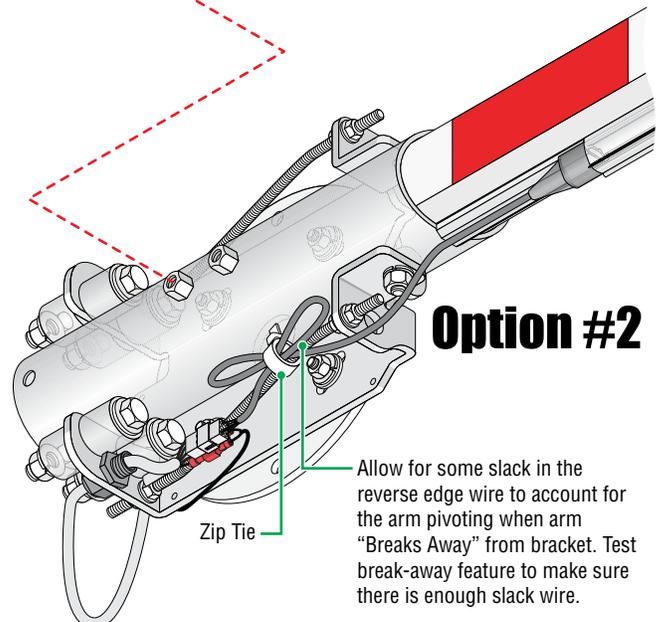
Use included zip ties to **secure ALL** wires to break-away arm bracket.

Option #1



IMPORTANT: Allow for some slack in the reverse edge wire to account for the arm pivoting when arm "Breaks Away" from bracket. Test break-away feature to make sure there is enough slack wire.

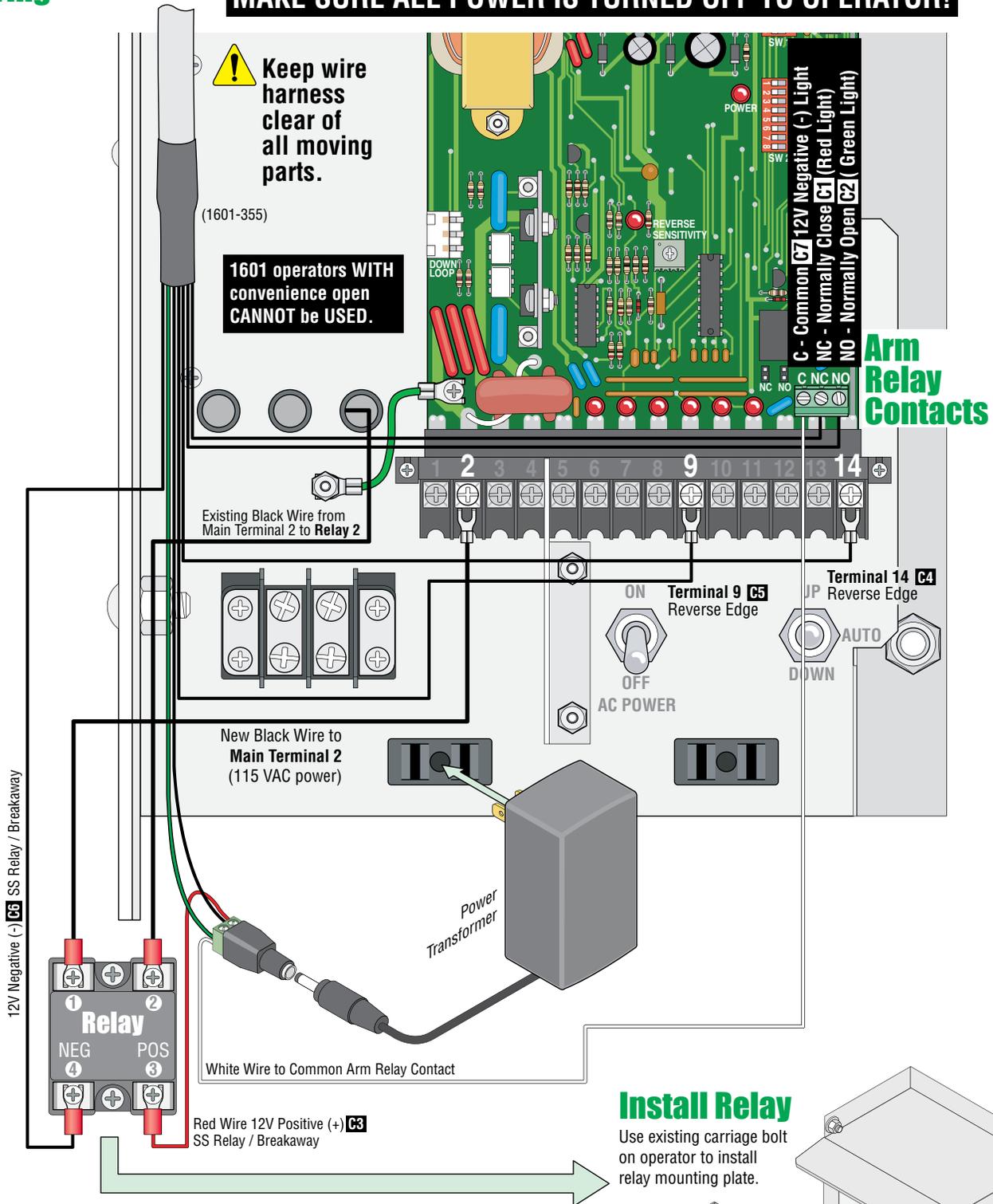
Option #2



Allow for some slack in the reverse edge wire to account for the arm pivoting when arm "Breaks Away" from bracket. Test break-away feature to make sure there is enough slack wire.

Wiring

MAKE SURE ALL POWER IS TURNED OFF TO OPERATOR!

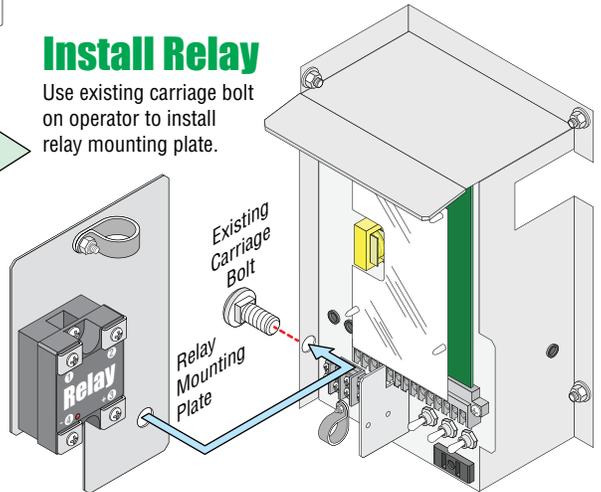


REMOVE existing black wire connected to MAIN Terminal 2 and re-connect it to RELAY 2.

Older Model 1601 Operator Note: Older model 1601 barrier operator **WITHOUT** convenience open have **TWO** existing black wires connected to MAIN Terminal 2. Re-connect **BOTH** of those wires to RELAY 2.

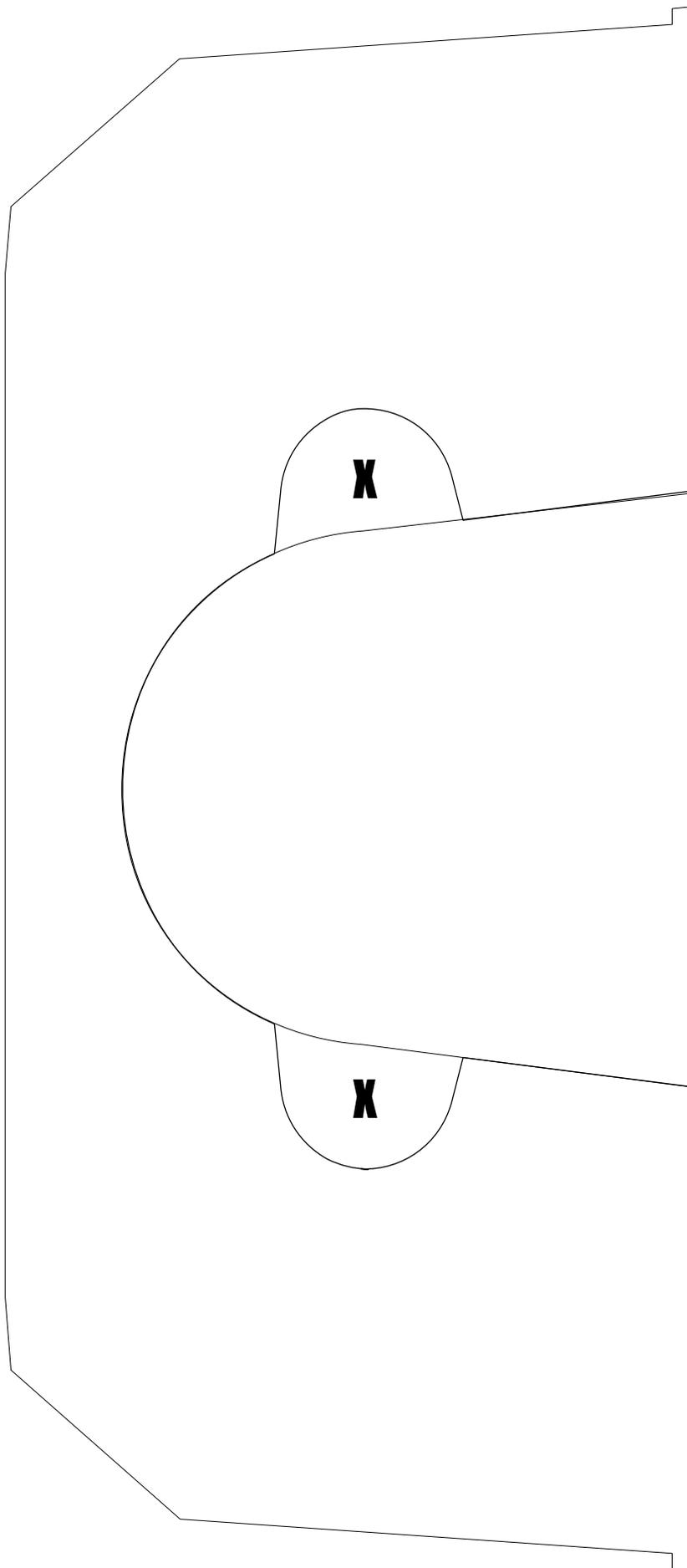
Install Relay

Use existing carriage bolt on operator to install relay mounting plate.



Older Arm Cover

Older arm cover will need to have the reverse edge cut out of the existing cover. Only one side of the cover will need to be cut out depending on which side of the operator the arm is mounted on. Use this template as a guide to remove material from the cover.



14 FT 2-PIECE OCTAGON ARM ASSEMBLY

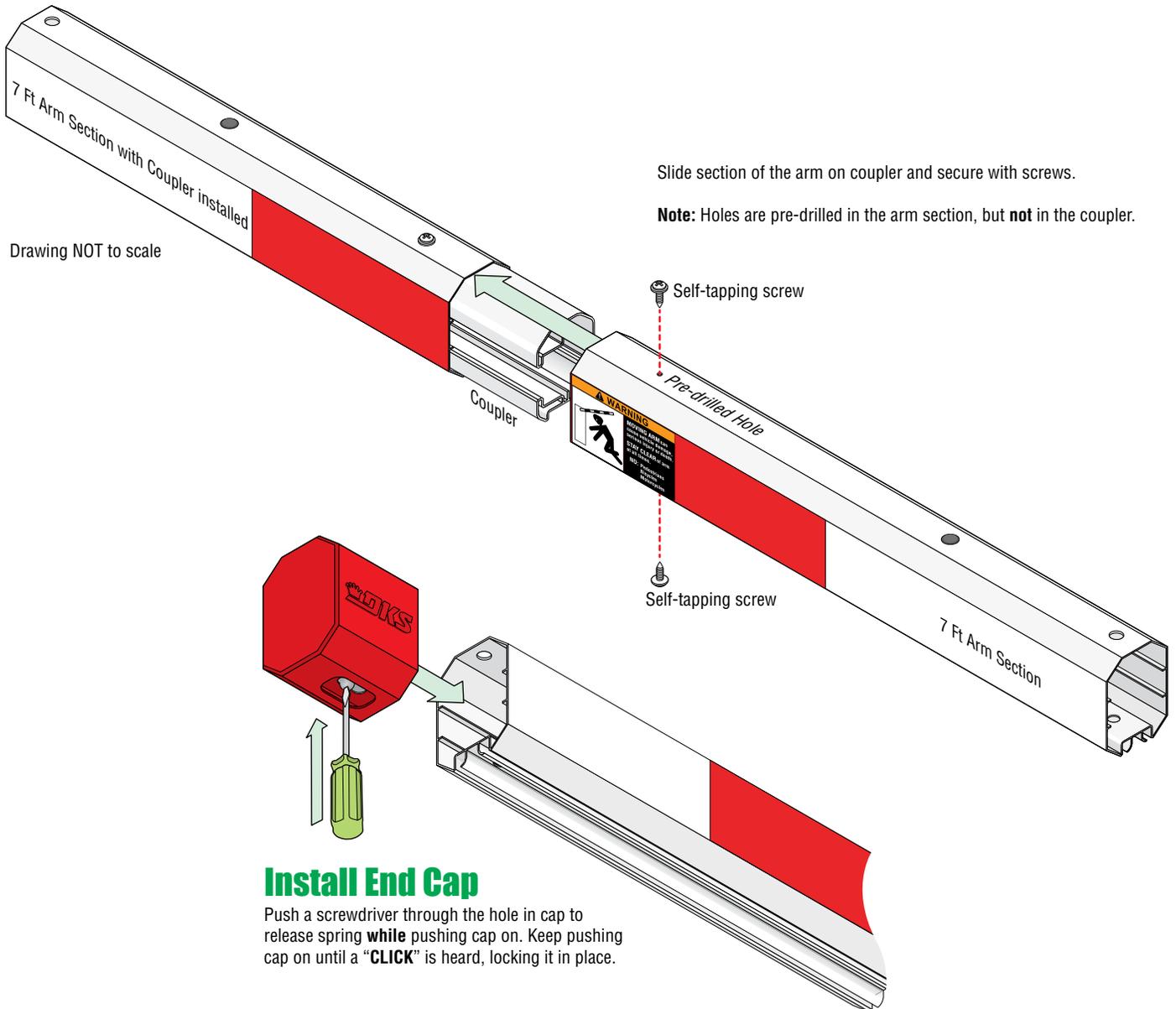
DoorKing Part Number

1601-567

14 Ft 2-Piece Octagon Arm Kit

This kit is designed for use on a 1601 or 1603 barrier gate operators **ONLY**. It has 2-7 ft arm sections that assemble into a 14 ft arm.

Assemble Arm



REVERSE EDGE / RED GREEN LED INSTALLATION

DoorKing Part Numbers

8080-080

Reverse Edge

8080-096

Reverse Edge + Red/Green LED

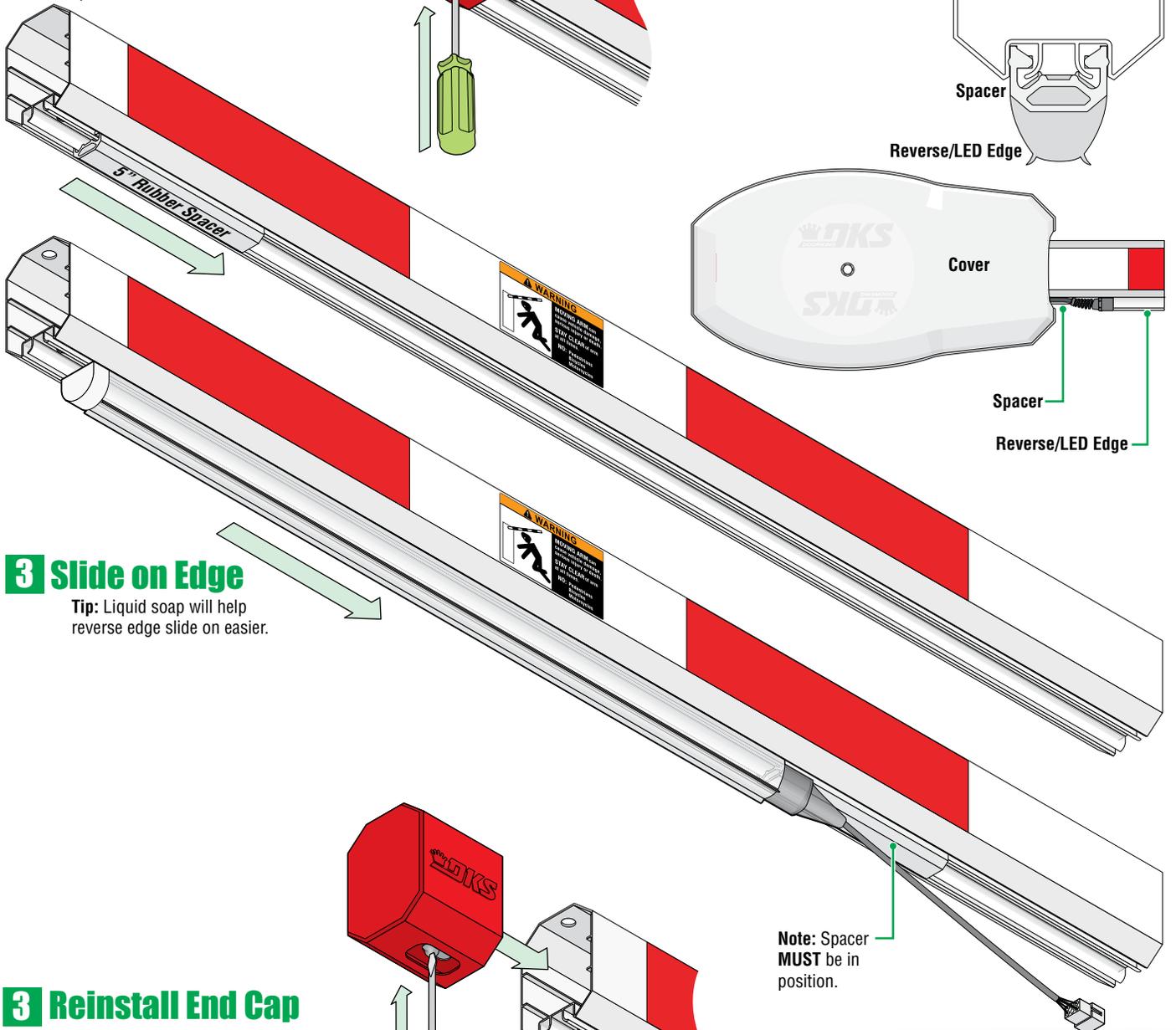
This kit is designed to install on a 14 ft aluminum **octagon arm** for a 1601 barrier gate operator or a 1603 auto spikes operator. It **CANNOT** be used with a 1602 operator.

Note: DO NOT operate arm with a malfunctioning reverse edge.

Installation

2 Slide on Spacer

Tip: Liquid soap will help spacer slide on easier.



3 Slide on Edge

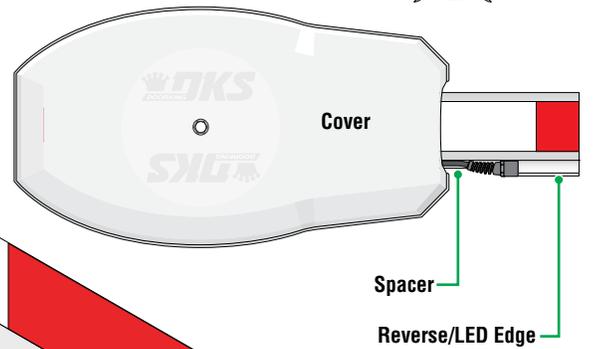
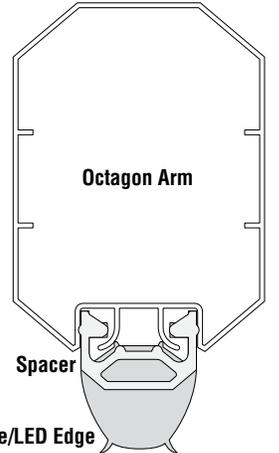
Tip: Liquid soap will help reverse edge slide on easier.

3 Reinstall End Cap

Push a screwdriver through the hole in cap to release spring **while** pushing cap on. Keep pushing cap on until a **"CLICK"** is heard which locks it in place.

1 Remove End Cap

Push a screwdriver through hole in bottom of end cap to release spring **while** pulling cap off.



Note: Spacer **MUST** be in position.

DKS
DOOR KING
120 S. Glasgow Avenue
Inglewood, California 90301 U.S.A.