

1601 BREAKAWAY ROUND ARM INSTALLATION KIT

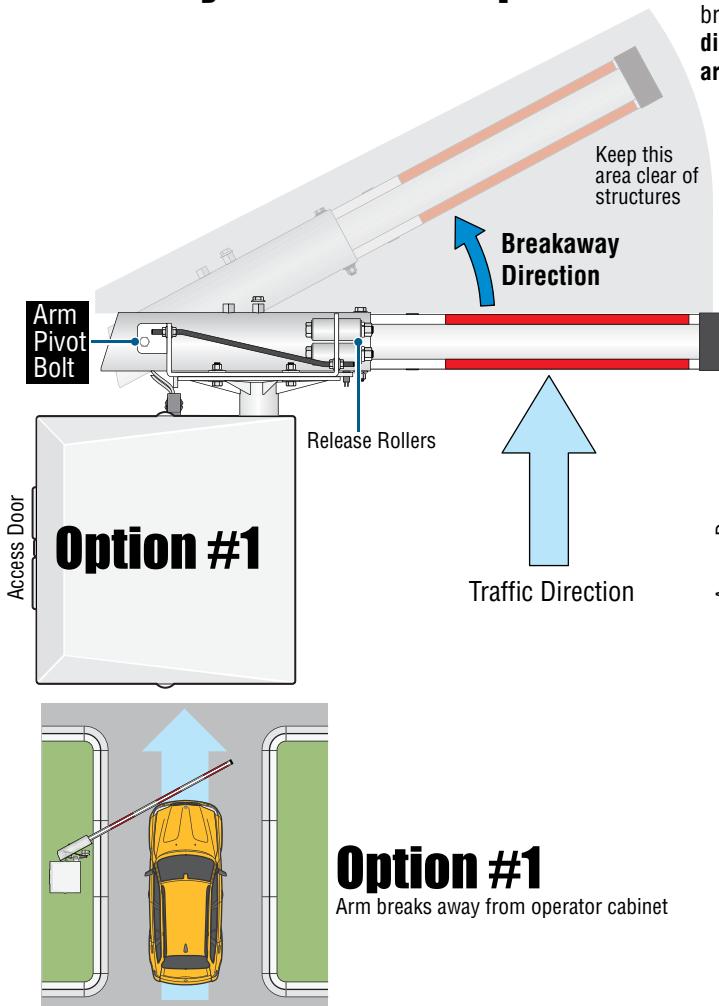
DoorKing Part Number

8080-295

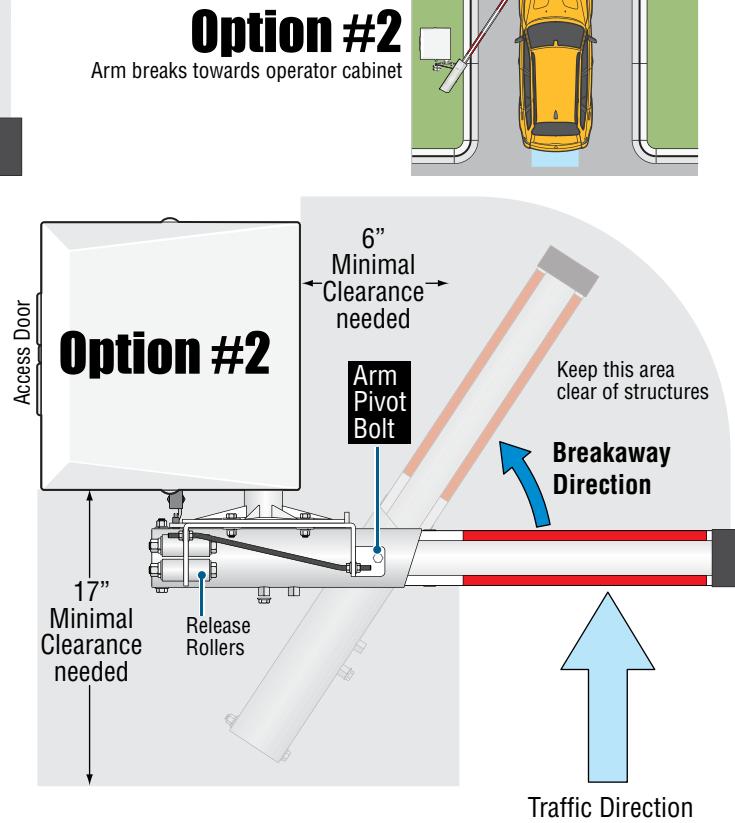
This kit is designed for a 1601 barrier gate operator **ONLY**. It **CANNOT** be used with 1602 or 1603 operators. The kit provides a breakaway bracket assembly for a **round arm**.

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.

Breakaway Arm Direction Options



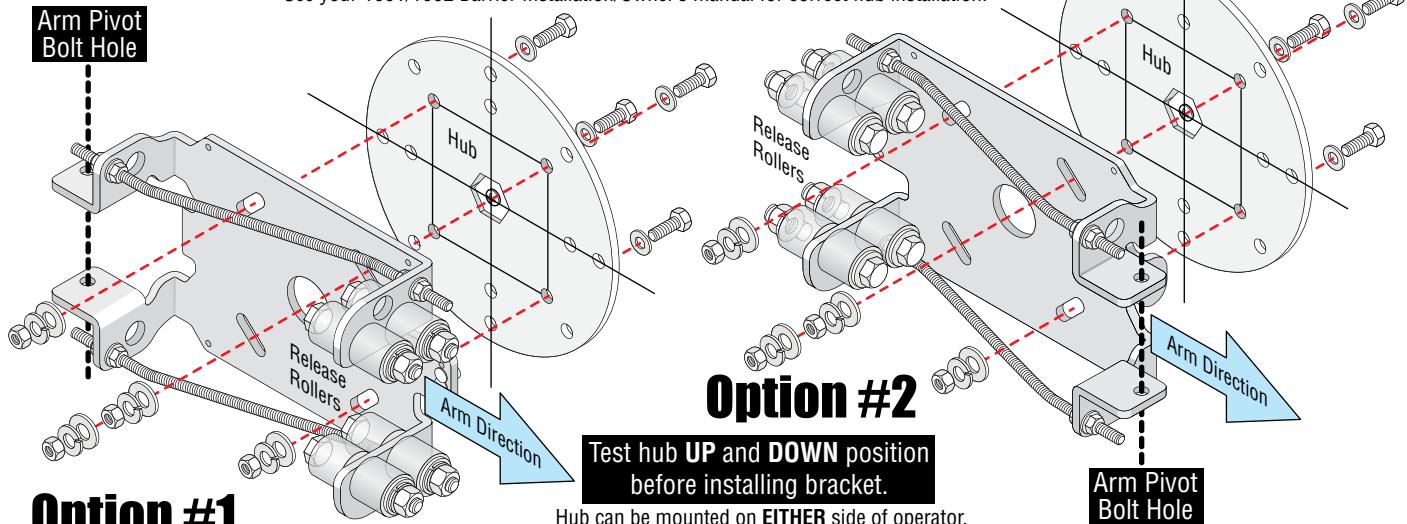
Arm will only pivot in **ONE DIRECTION** depending on which way the breakaway arm bracket is installed. **Choose the desired breakaway direction** and install breakaway arm bracket accordingly (note position of arm pivot bolt and release rollers).



Install Bracket

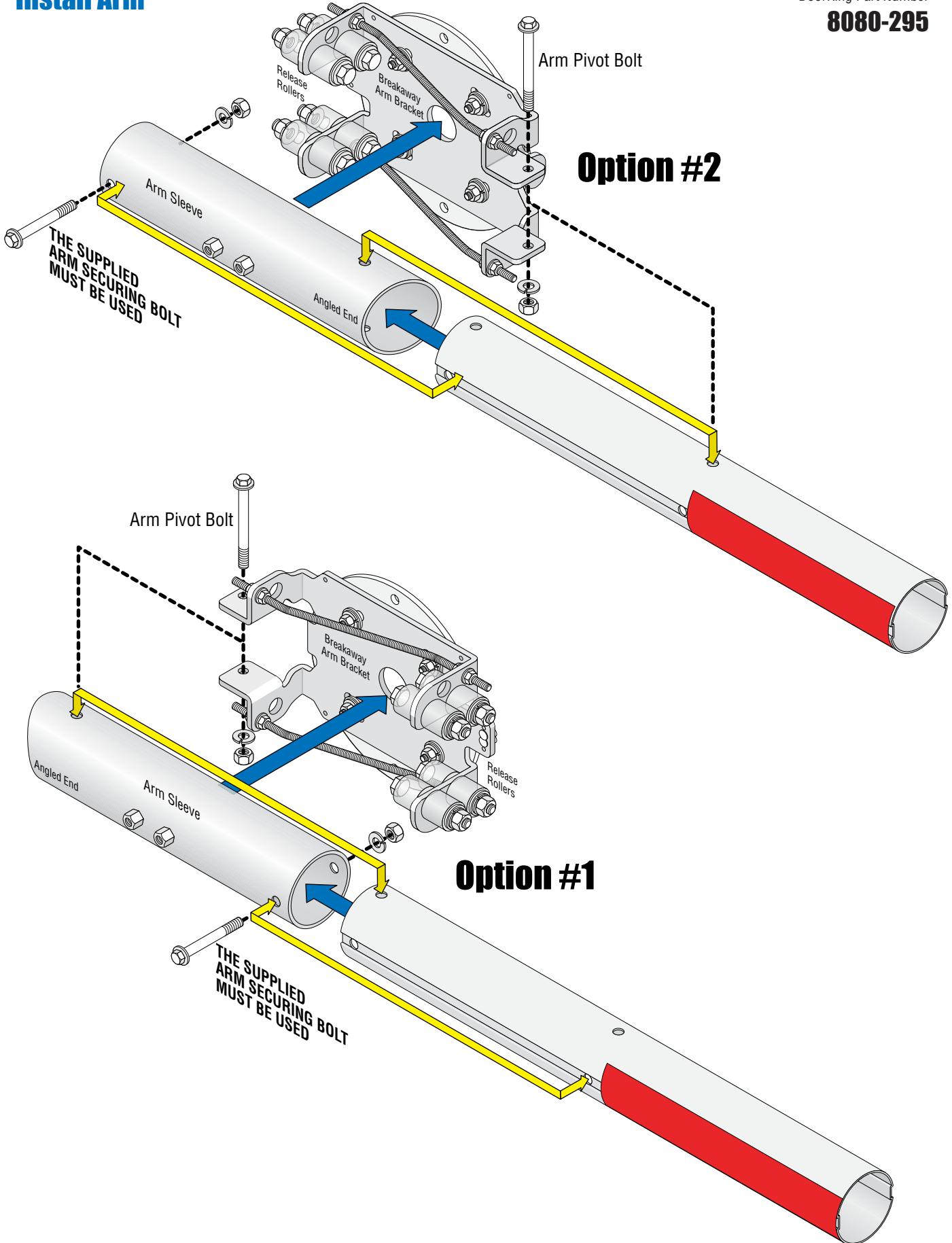
Hub **MUST** already be installed on gate operator.

See your 1601/1602 Barrier Installation/Owner's manual for correct hub installation.



Install Arm

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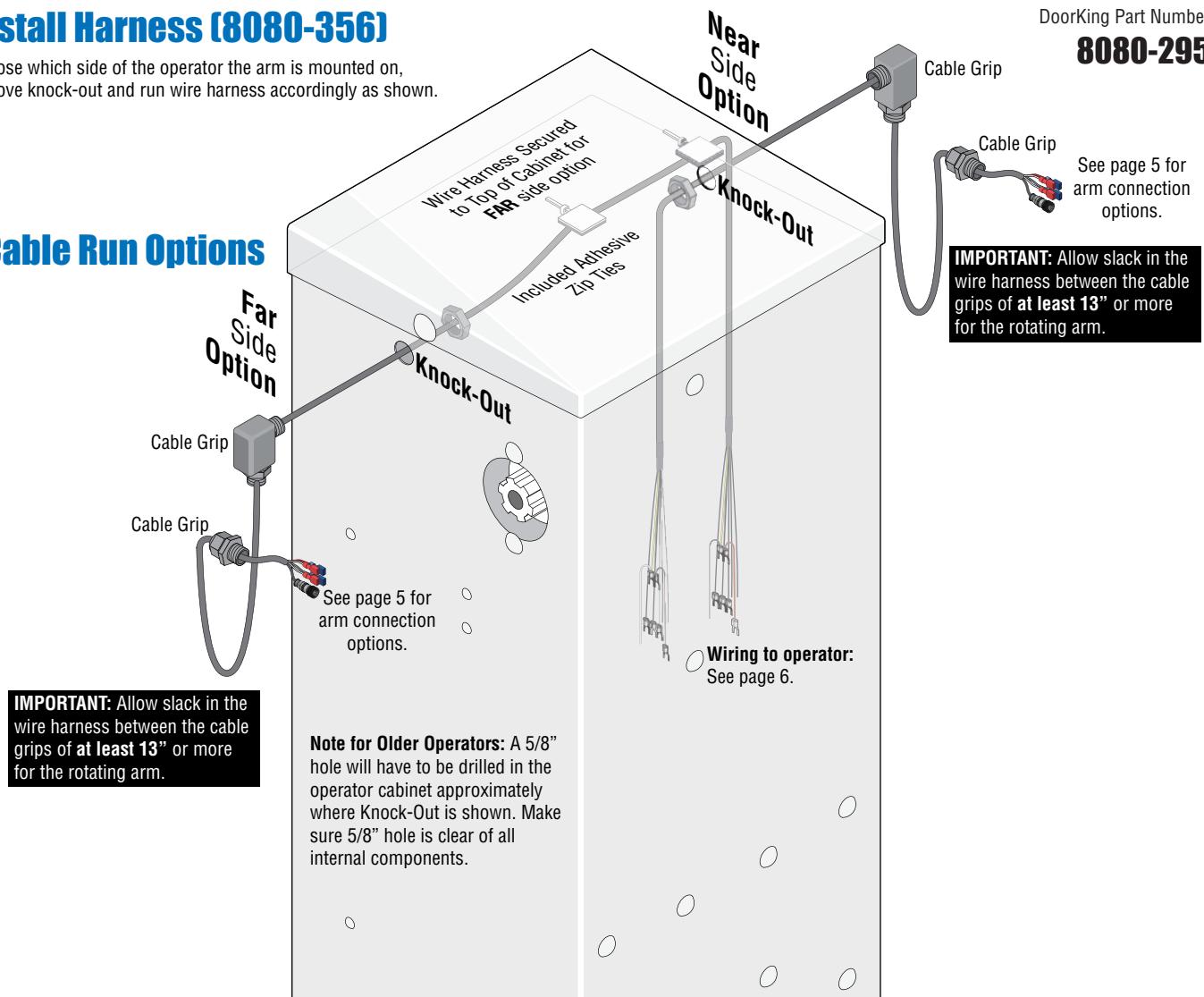
Install Harness (8080-356)

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

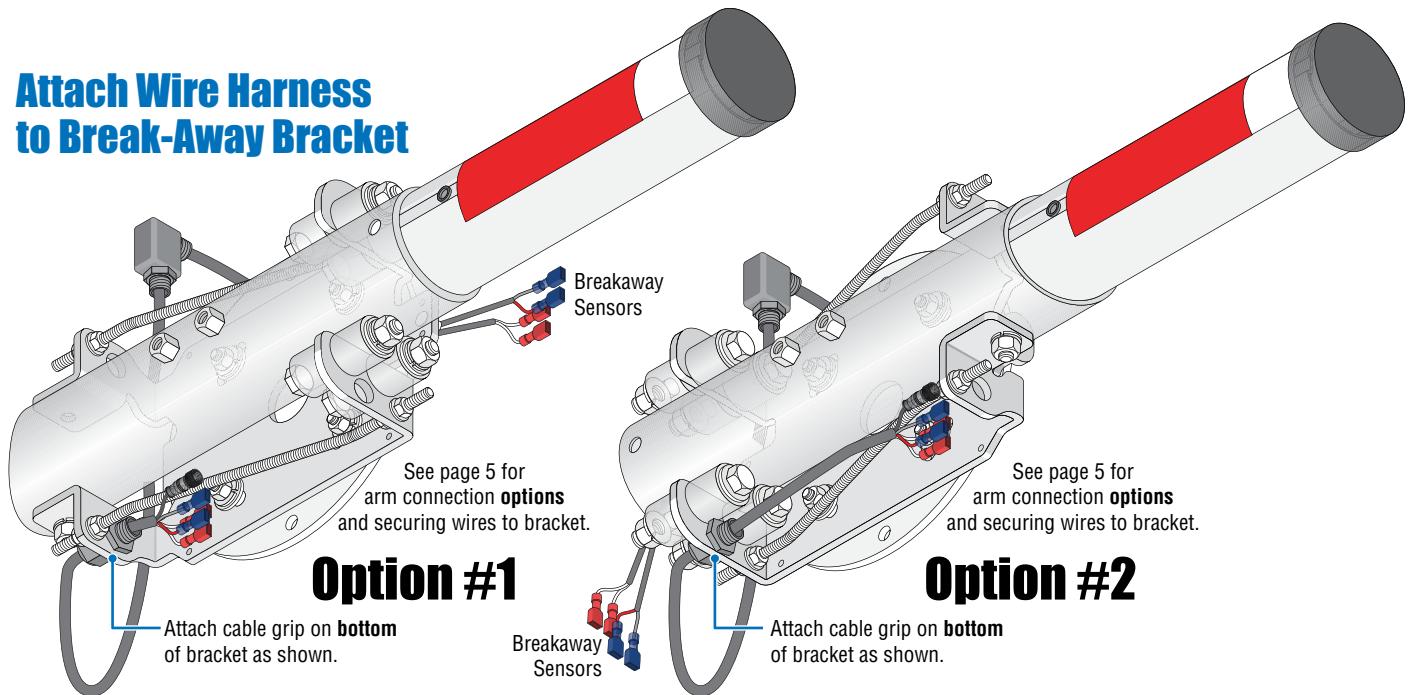
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Cable Run Options



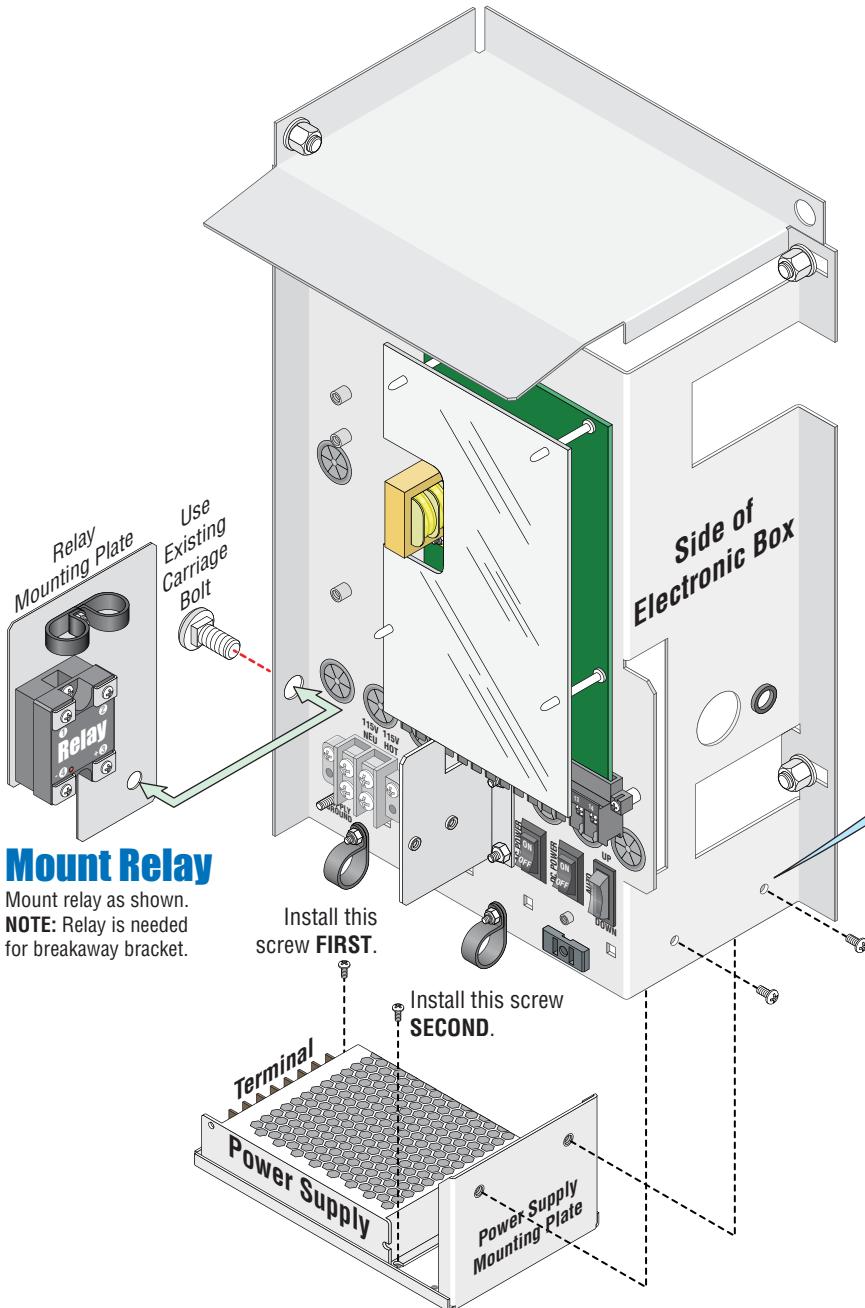
Attach Wire Harness to Break-Away Bracket



Mount Power Supply and Relay

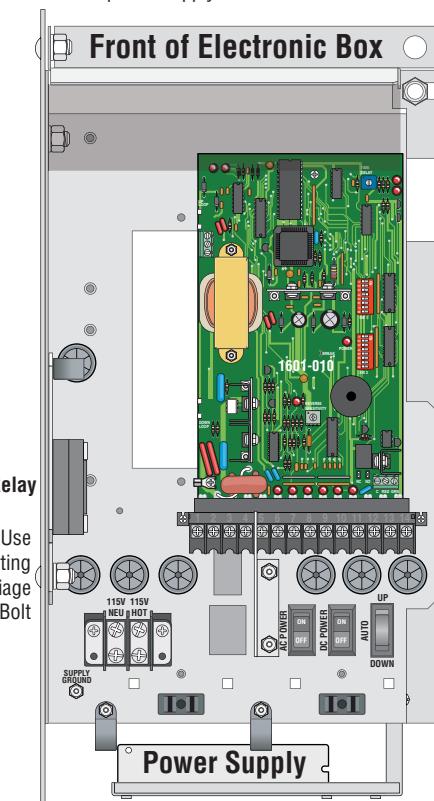
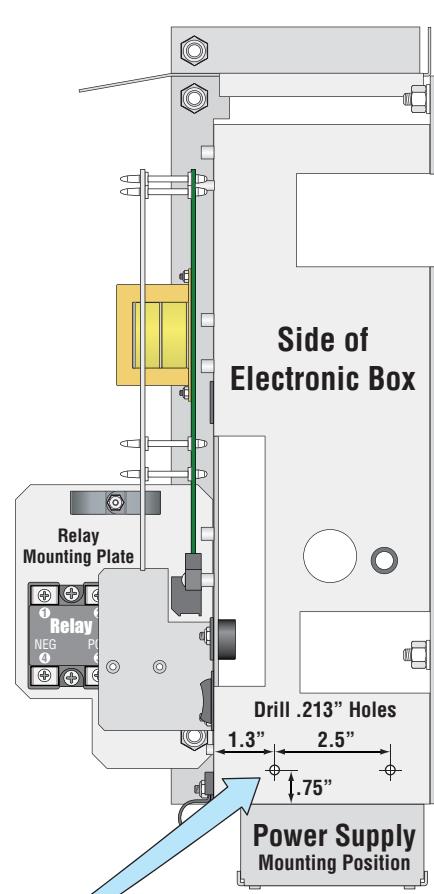
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Mount Power Supply

IMPORTANT: Power supply **MUST** be wired **BEFORE** mounting it as shown. See page 6.

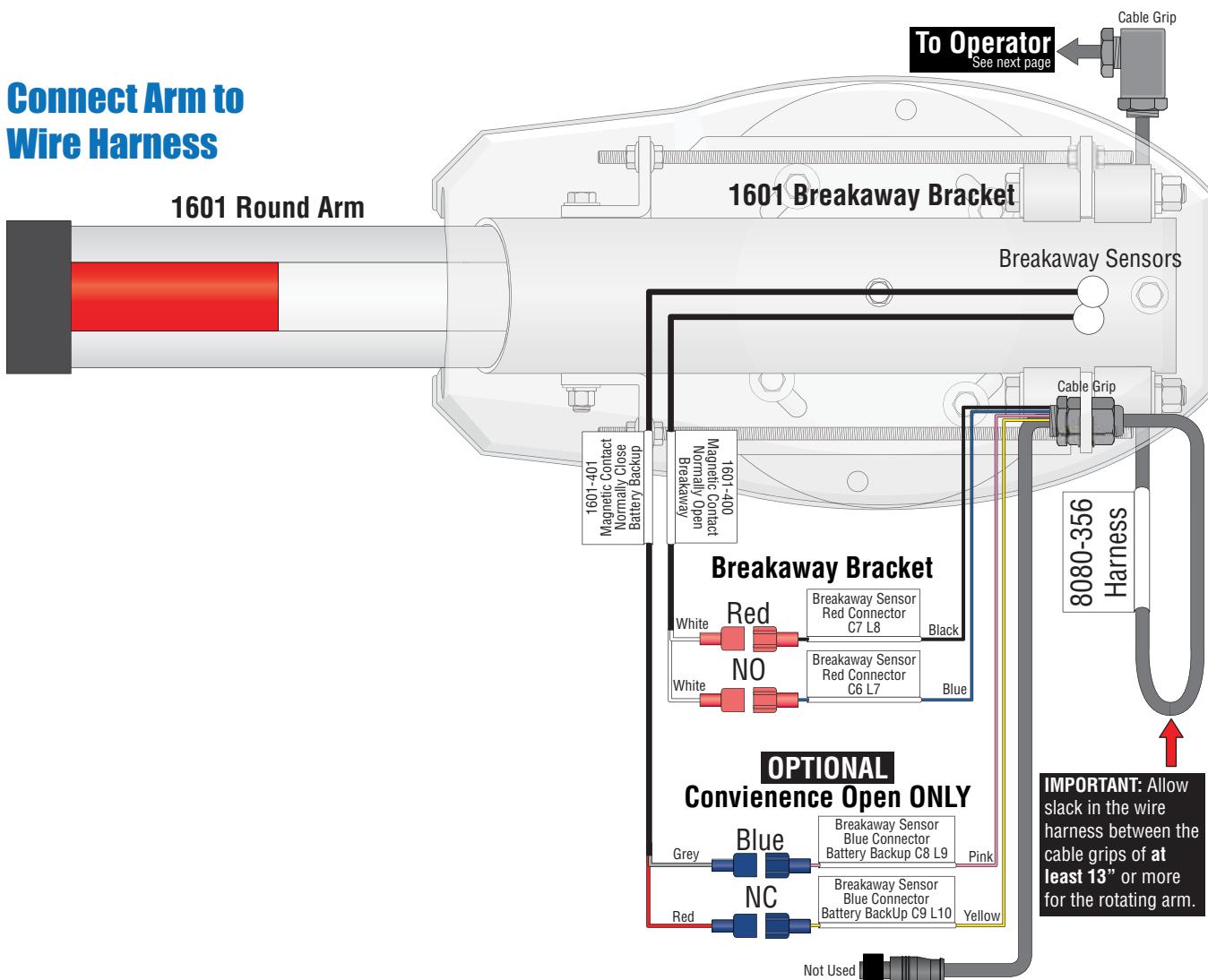


1601 Round Breakaway Arm - Arm Connection

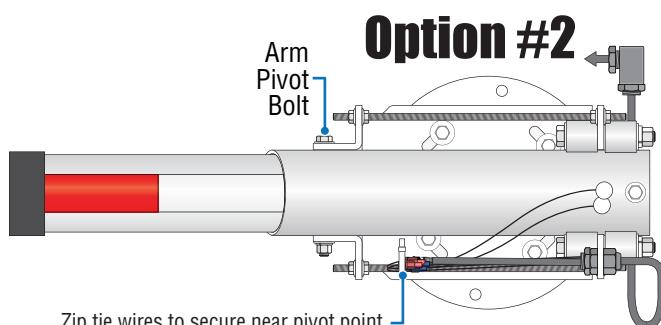
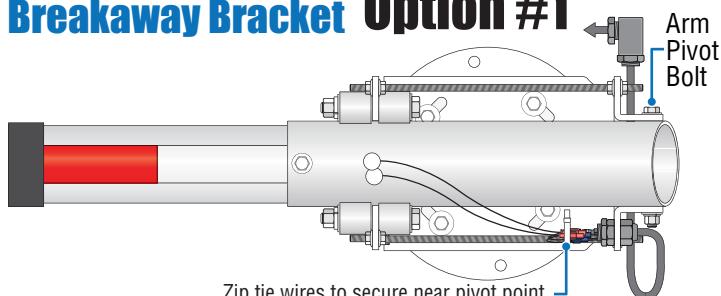
DoorKing Part Number
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MAKE SURE ALL POWER IS TURNED OFF TO OPERATOR!

Connect Arm to Wire Harness



Secure Wires to Breakaway Bracket Option #1



IMPORTANT: To secure wires to bracket, allow for some slack in the wires to account for the arm pivoting when arm "Breaks Away" from bracket. Test breakaway feature to **make sure** there is enough slack in the wires when securing wires.

Breakaway Arm Reset Procedure

If arm gets struck and breaks away, gate operator will automatically shut down (Breakaway sensors are tripped). Simply snap arm back into the release rollers. Make sure all wires are out of the way of the arm when snapping arm back in position. Normal operation can then continue.

DO NOT OPERATE ARM WITHOUT BREAKAWAY SENSORS FUNCTIONING.

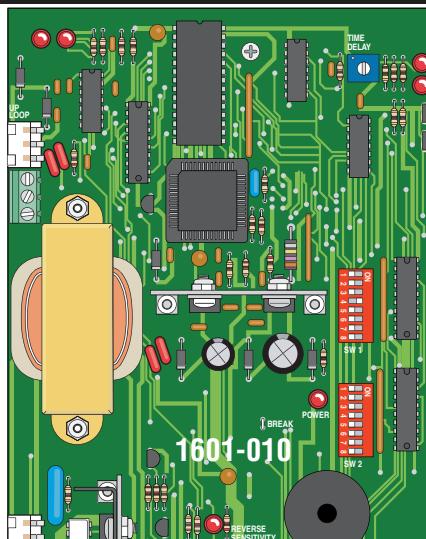
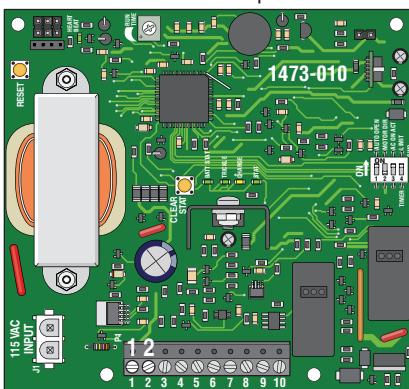
1601 Round Breakaway Arm - Wiring Operator

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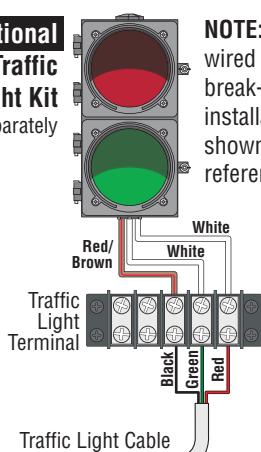
OPTIONAL Convenience Open 1473

NOTE: Will **NOT** work with older model 2340-010 convienence open board

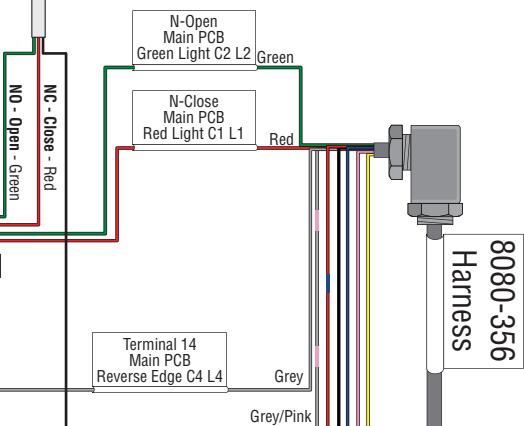


Optional LED Traffic Light Kit

Sold Separately



NOTE: The traffic light is wired together with the break-away arm in some installations, so it's shown here for wiring reference. See Traffic Light manual 1603-264 for more info when used.



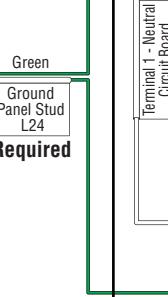
8080-356
Harness

To Arm See previous page

Make sure **ANY** unused wires are properly terminated and do **NOT** have exposed bare wires or metal connectors that could cause the operator to malfunction.

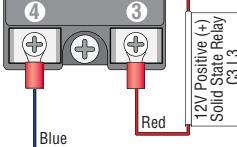
SUPPLY GROUND

Required



Relay

Relay for
Breakaway Sensors



12V Positive (+)
Solid State Relay
C3 L3

12V Negative (-)
Solid State Relay
C6 L6

1601-426 Power Supply 8.5A

