

### StrongArmPark DC Breakaway Arm Bracket and Lighting Installation

#### Tools Required

- Utility knife
- Standard socket set
- Standard hex key set

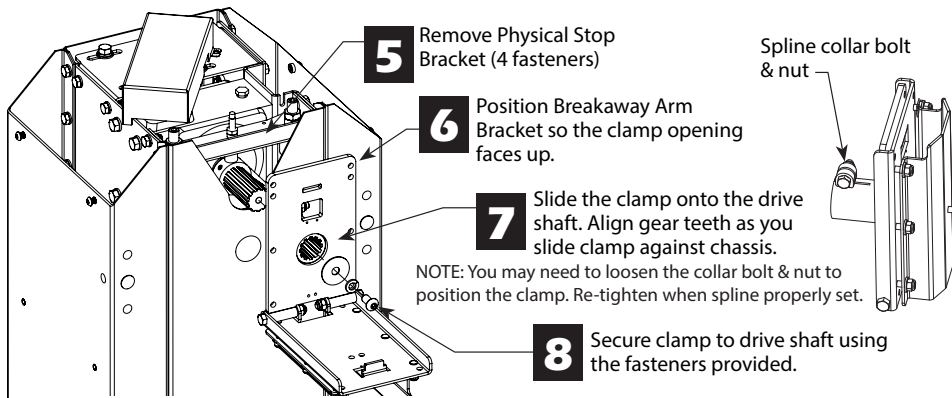


To review the installation video, scan the QR code with your cell phone or click on the Youtube video location: <https://youtu.be/AdTWNyC-NU>

In a short 8 minutes, the installation video shows you how to:

1. Install the breakaway arm bracket
2. Connect the magnetic kill switch
3. Connect the arm lighting and feed wire through the chassis to the controller (5:50 min)
4. Program the controller, Installer Menu setting "BA" Breakaway switch.

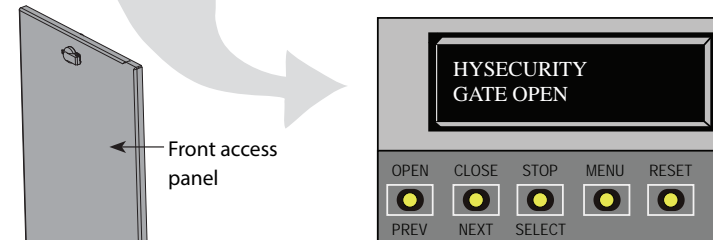
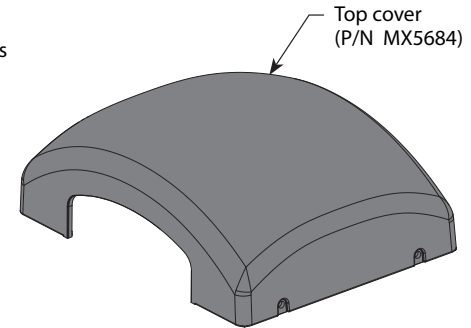
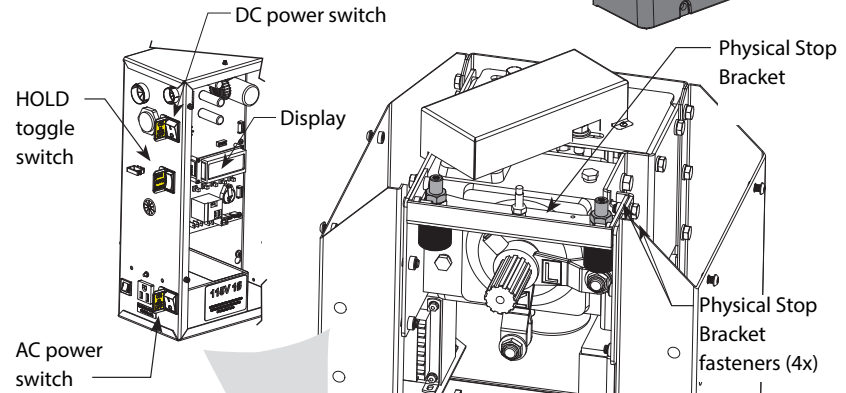
To install the breakaway arm bracket onto the StrongArmPark DC, you can take the steps shown here and view the video for additional clarification.



**1** Make sure AC and DC power switches are in the OFF position.

**2** Connect the red battery wire. (Refer to step 4 in [the Installation Instructions.](#))

**3** Press the DC switch ON and toggle HOLD switch to Hold Open.



**4** After GATE OPEN appears on the display, turn the DC power switch OFF.

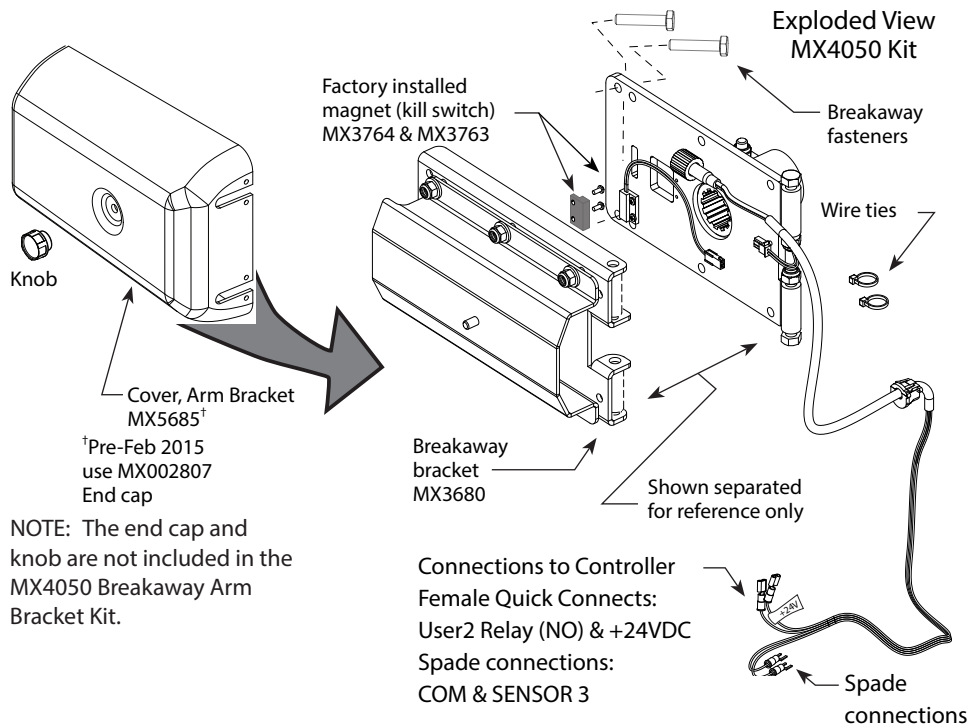
NOTE: Follow the video to feed wire harness through chassis, assemble barrier arm, connect lighting and program the gate operator.

#### IMPORTANT DISCLAIMER!

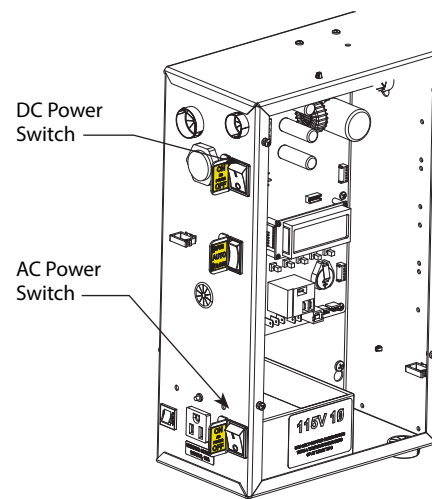
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# StrongArmPark DC: Lighting Connection

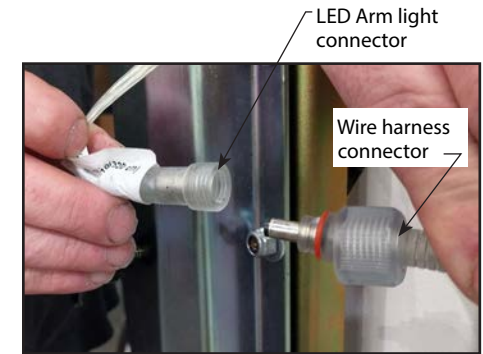
1. Make sure both AC and DC power switches are turned OFF.
2. Insert leads of wire harness through the hole in chassis between the two bracket mounts. Feed the cable through the interior of the chassis. Pull enough cable to reach the Smart DC Controller terminals.  
  
NOTE: Connect wire lead (female quick connect) labeled +24V to 24VDC. Lights will be dim if lead is connected to 12VDC terminal.
3. Attach the end of the wire harness (on the outside of the chassis) to the LED light connector on the arm. The wire harness connector is keyed. Be sure to seat the connectors before threading close. See illustration on previous page.
4. Make sure the harness is secured to the chassis with the strain relief bushing. See illustration on previous page.



NOTE: The end cap and knob are not included in the MX4050 Breakaway Arm Bracket Kit.



Turn OFF AC and DC power



Connect Arm Light Cables

5. Connect female quick connect labeled +24V to the 24VDC power supply terminal. See wiring illustrations.
6. Connect the second female quick connect to the NO terminal on User Relay 2.

NOTE: If you are planning to program the proximity sensor in the breakaway bracket assembly, connect one spade connection to COM and the other to SENSOR 3 (Photo Eye Close on BY1 operators).

## Navigation Buttons

To access Menu mode	To change menu item appearing in the display	To navigate through the menu item selections
Press Menu button twice.	Press Select. Two left characters blink.	Press Next or Previous. Continue pressing Next to view all selections.

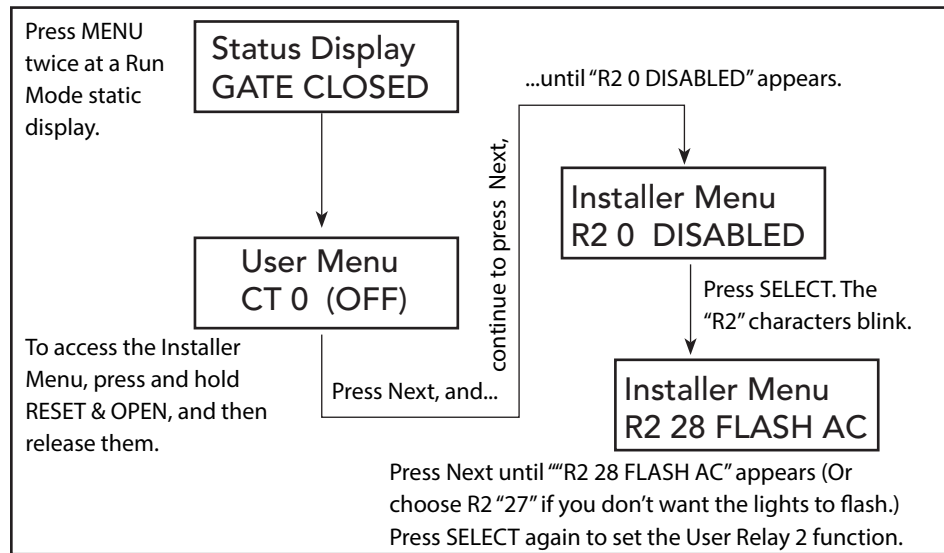
To choose what item appears on the display	To navigate between menu items
Press Select. Blinking characters become static.	Press Next or Previous. Advance - press Next Previous - press Previous

7. Turn on both AC and DC power switches. Arm will cycle to search for the target home position.
8. When the arm has stopped moving, access the Installer Menu.
9. Set the User Relay 2 logic function to one of the following:
  - R2 "27": LED lights remain on throughout arm travel and turn off when open limit is reached.
  - R2 "28": LED lights flash throughout arm travel and turn off when open limit is reached.

NOTE: In the event of AC power loss, either selection (27 or 28) turns off the lights which preserves battery life.

10. Set the breakaway switch or press Menu to return to run mode.

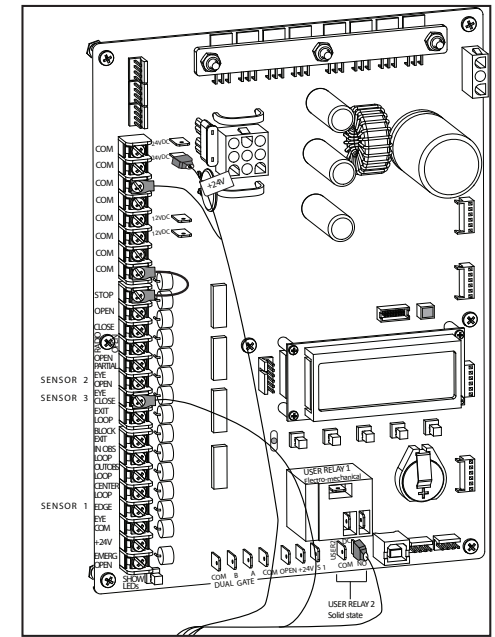
#### RELAY 2: INSTALLER MENU FLOW DIAGRAM



11. To turn on the magnetic proximity switch in the breakaway arm assembly, navigate to BA in the Installer Menu.
12. Select BA and change the menu item to 1.
13. Exit the Installer menu mode by pressing Menu and return to run mode.

NOTE: For the menu mode navigational buttons, refer to the chart on page 3.

#### Smart DC Controller: Menu Mode



Arm Lights and Breakaway Switch Connections on Smart DC Controller

## Retrofit Requires Hole Drilled in Chassis

#### Tools Required

- Standard drill set
- Electric drill

To retrofit a StrongArmPark DC with MX4122 cable lighting, you will need to drill a 5/8-inch hole in the chassis. The hole provides a means to feed the light cable through the chassis and attach wires for power and programming purposes to the controller.

Remove center plug to feed wire harness cable through chassis. If plug doesn't exist, a 5/8-inch access hole may need to be drilled.

