

#### a Nice company

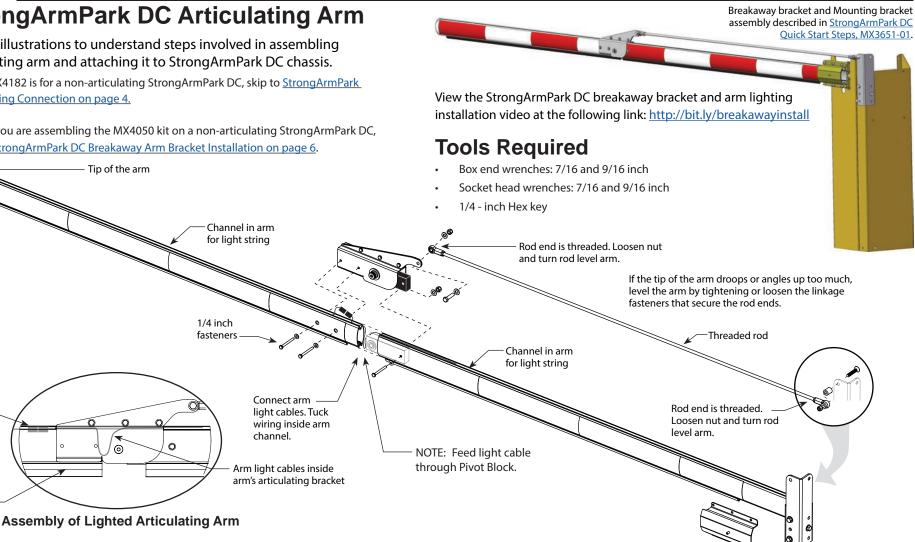
# Installation Instructions MX4010, MX4050, MX4122, MX4123, MX4182

### StrongArmPark DC Articulating Arm

Review illustrations to understand steps involved in assembling articulating arm and attaching it to StrongArmPark DC chassis.

NOTE: MX4182 is for a non-articulating StrongArmPark DC, skip to StrongArmPark DC: Lighting Connection on page 4.

NOTE: If you are assembling the MX4050 kit on a non-articulating StrongArmPark DC, refer to StrongArmPark DC Breakaway Arm Bracket Installation on page 6.



#### **IMPORTANT DISCLAIMER!**

All gate installations using HySecurity vehicular gate operators must comply with UL325 and ASTM F2200 safety standards in addition to any local area codes and standards. Site, gate hardware, usage class, and other conditions will dictate the use of additional safety designs and components. All safety related warnings and notices in this document, and any diagrams, drawings, photographs and similar content should not be considered guidance on how to make your particular site safe and code compliant. It is the responsibility of the gate system designer, installer and owner to assess appropriate safety design considerations, correct implementation and ongoing maintenance of any system.

Arm cap

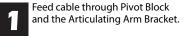
Arm light

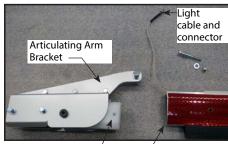
connectors

Pivot block inside articulating

bracket

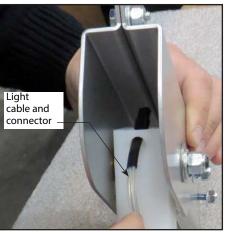
## **Assemble the Pivot Block and Connect Light Strings**





**Pivot Block** 

Aluminum Arm

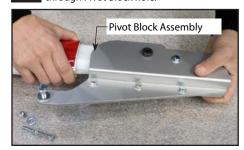


Feeding the cable (LED lighting) through the Pivot Block

Connect the arm lights. Place the connectors inside the arm channel and slide the arm into the Articulating Pivot Bracket.

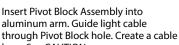


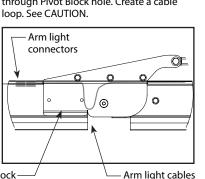
Insert Pivot Block Assembly into aluminum arm. Guide light cable through Pivot Block hole.



Secure Pivot Block with supplied 2 fasteners. Use box-end and socket wrenches. Tighten bolt securely.







inside arm's articulating bracket. See CAUTION.



Pivot block

articulating bracket

inside

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To allow full arm travel and minimal stress on the light connectors, check the cable loop INSIDE the Articulating Pivot Bracket to ensure it moves freely and is not being pinched.

Secure the arm to the Articulating Pivot Bracket using the fasteners provided. Tighten securely with socket and boxend wrenches.

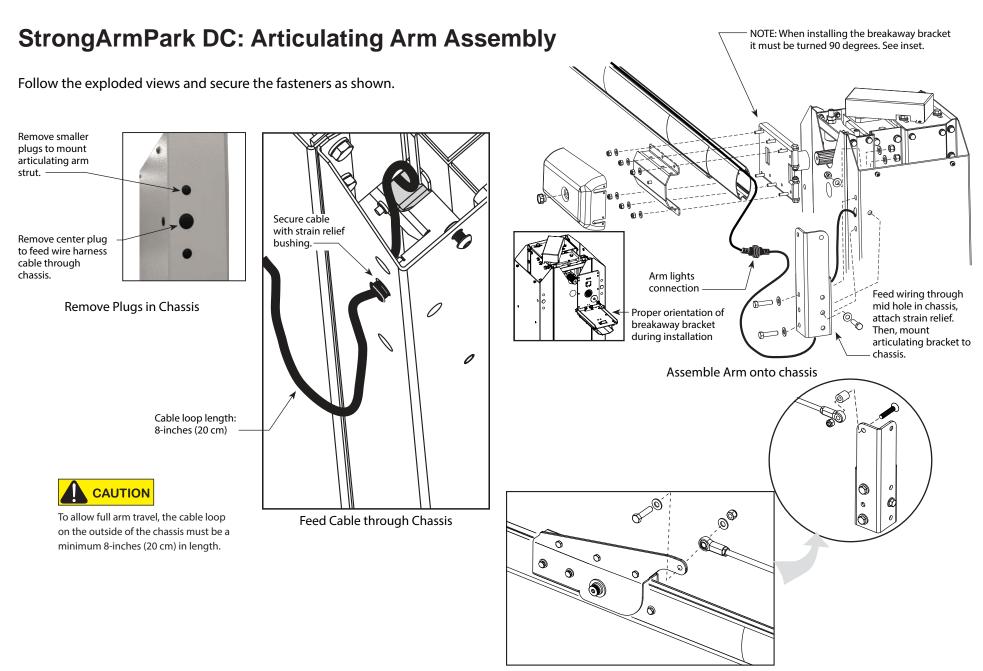




Place the aluminum arms next to each

other as shown in the photograph.

StrongArmPark DC Articulating Arm Assembly and Installation



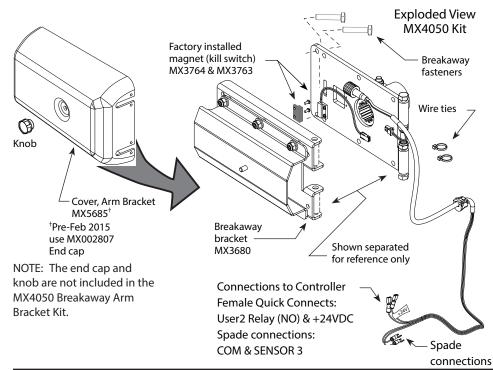
Fasten Articulating Arm Bracket to Rod End and attach assembly to Chassis

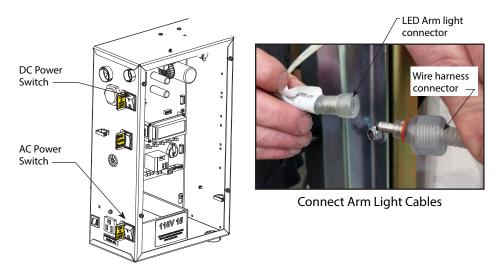
## StrongArmPark DC: Lighting Connection

- 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.





Turn OFF AC and DC power

- 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).

#### Smart DC Controller: Menu Mode Navigation Buttons

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

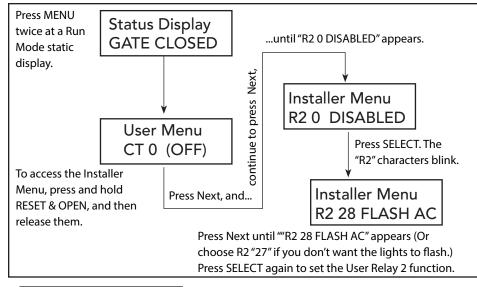
To choose what item appears on the display	To navigate between menu items
Press Select.	Press Next or Previous.
Blinking characters	Advance - press Next
become static.	Previous - press Previous

- 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.

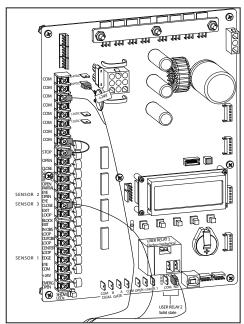
#### RELAY 2: INSTALLER MENU FLOW DIAGRAM





- 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 page 4.



Arm Lights and Breakaway Switch Connections on Smart DC Controller

## **Retrofit Requires Hole Drilled in Chassis**

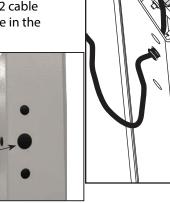
Tools Required

- 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.



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## StrongArmPark DC Breakaway Arm Bracket Installation

#### **Tools Required**

Utility knife

Standard hex key set

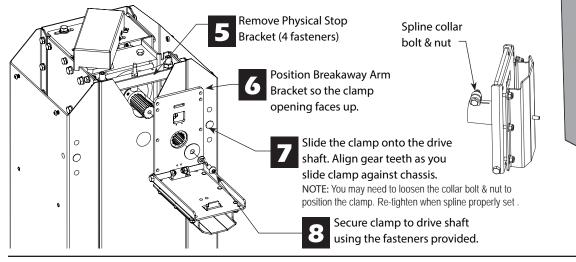
Standard socket set

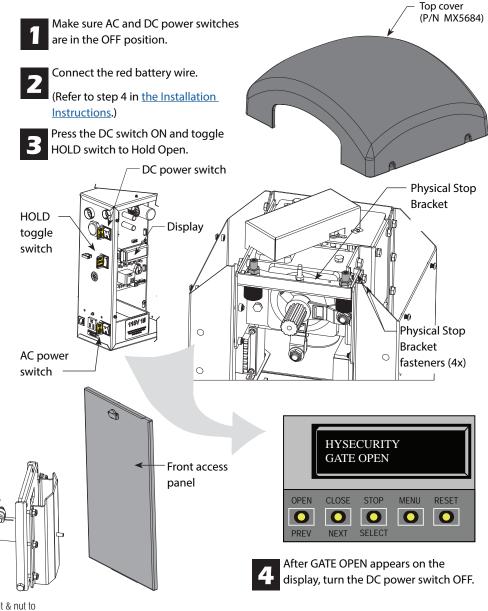
To review the installation video, scan the QR code with your cell phone or click on the Youtube video location: <u>https://youtu.be/AdTWNYcC-NU</u>

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 step clarification.





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