

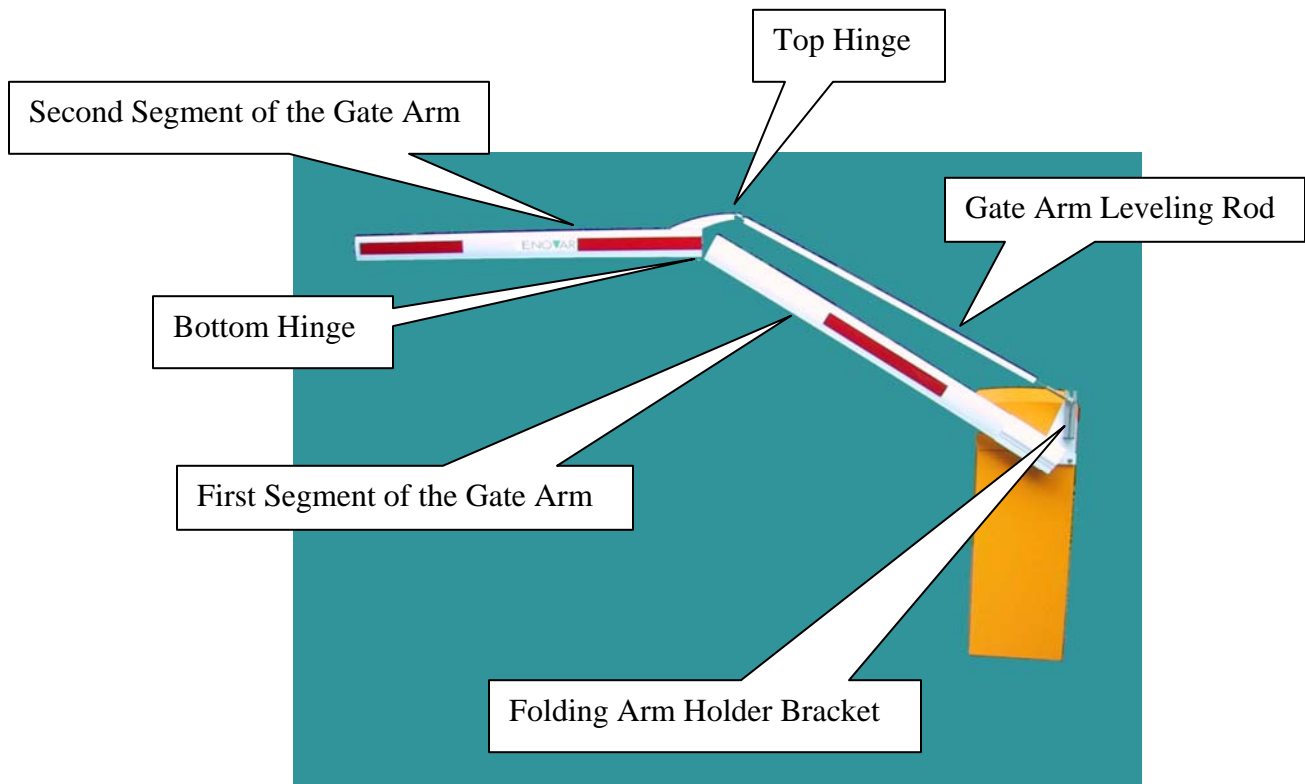
SG-200 Folding Arm Installation Digest

1. Introduction

This installation digest covers the installation of the folding Gate Arm for the SG-200.

This manual does not cover the installation of the gate itself. Please refer to the SG-200 User's manual and the SG-200 Installation Digest.

This manual covers the installation of the folding Gate Arm, from start to finish. Before starting, please look at the below picture to get an idea of the final result, and the naming conventions used in this digest.



2. Verify all parts

The parts are in 2 different locations:

The accessory-box (comes inside the gate box) contains:

- A small plastic bag with 4 mounting bolts, the door-key and 4 bolts for the Arm Holder, with washers and nuts:



- The Gate Arm Holder:



- The Bottom (black) & Top (white) Hinges of the Folding Arm:



(Please take notice that the Bottom Hinge consists of a plastic part and a metal part)

- An M8/1.25mm Thread Plug Tap (packed together with the Gate or with the Gate Arm)



The Gate Arm Tube (shipped separately) contains:

- The actual 10' Flat Gate Arm
- The folding arm Leveling Rod (with a screw on one end)



The actual gate is equipped with a Folding Arm Holder Bracket, mounted on the cabinet.



Folding Arm Holder Bracket

3. Measure Height & Cut the Gate Arm

3.1. Basic Dimensions

- In order to avoid making mistakes in judging the available height of the movement of the Gate Arm, fix the Gate Cabinet in its final position first, and only then start the measurements for the Folding Gate Arm.
- Measure the “AvailableHeight (AH)”, being the distance **from the Top of the Gate Cabinet to the Lowest Point of the Ceiling**.
- Measure the “Total Height (TH)”, being the **distance from the platform where the Gate Cabinet is mounted to the Lowest Point of the Ceiling**.

3.2. Calculate the length of the First Segment of the Folding Arm

- The **length of the First Segment of the Arm = AH + 3.5”**
- E.g. if the distance from the top of the Gate Cabinet to the ceiling is 54”, then the First Segment should be cut at $54” + 3.5” = 57.5”$
- **The length of the First Segment of the Arm = TH – 37”**
- E.g. if the distance from the platform where the Gate Cabinet is mounted to the ceiling is 94.5”, then the First Segment should be cut at $94.5” - 37” = 57.5”$

3.3. Cut the Gate Arm

- Cut the Gate Arm and the rubber guide in 2 segments, according to the previously outlined measurements

4. Assemble the Gate Arm

4.1. Install the Arm Holder

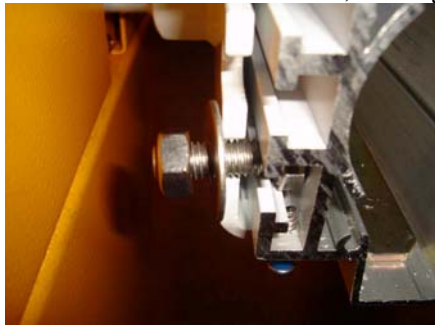
- Take the Arm Holder from the accessory-box:



- The Arm Holder will first be attached to the gate, and after that, the Gate Arm will slide into this Arm Holder.
- Pre-assemble the four Arm Holder bolts with washers and nuts:



- While holding the Arm Holder in place against the gate, slide the bolts one by one into the sleeves of the Arm Holder, and tighten each nut:



4.2. Install the First Segment of the Gate Arm to the Arm Holder

- Make sure that the screws on the bottom of the Arm Holder are loose:



- Insert the First Segment of the Gate Arm gently into the Arm Holder, all the way, until the arm touches the back of the Arm Holder. Then, tighten the screws on the bottom of the Arm Holder to keep the arm fixed inside the Arm Holder:



4.3. Prepare the Second Segment of the Gate Arm

- Hold the Top Hinge over the top of the Second Segment of the Gate Arm, and mark the three positions of the holes of the Top Hinge on the Gate Arm.
- Drill three 7/32" holes to attach the Top Hinge to the Second Segment of the Gate Arm



Drill these three holes in the Gate Arm, based on the position of the holes in the Top Hinge

- Attach the Top Hinge to the Second Segment of the Gate Arm by sliding the Screw-hole plate into the Gate Arm profile, and inserting the screws from the top of the Top Hinge:



Screw-hole plate

- Connect **the metal part** of the Bottom Hinge to the Second Segment of the Gate Arm by loosening the three screws, sliding the screw-hole plate into the Gate Arm profile, and tightening those screws:



Cut away the excess of the rubber strip on the Second Segment of the Gate arm, if it obstructs the insertion.

4.4. Connect the two Gate Arm Segments to each other

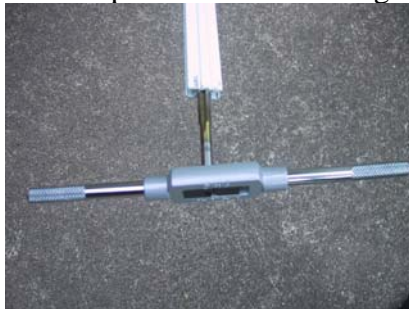
- Connect the **plastic part** of the Bottom Hinge to the First Segment of the Gate Arm by loosening the three screws, sliding the screw-hole plate into the Gate Arm profile, and tightening those screws:



Cut away the excess of the rubber strip on the first segment of the Gate Arm, if it obstructs the insertion.

4.5. Cut and thread the Aluminum Leveling Rod

- The Leveling Rod will connect the Top Hinge to the Folding Arm Holder Bracket (on the Gate Cabinet), and will make sure that the Second Segment of the Gate Arm remains horizontal throughout the opening and closing movement of the total Gate Arm.
- Based on the previously measured “Available Height”, cut the Leveling Rod at **AH – 7”**.
or
- Based on the previously measured “Total Height”, cut the Leveling Rod at **TH – 47.5”**
- E.g. if the distance from the top of the Gate Cabinet to the ceiling is 54”, then the Leveling Rod should be cut at $54” - 7” = 47”$.
- Use the provided Thread Plug Tap to create thread inside the Leveling Rod:



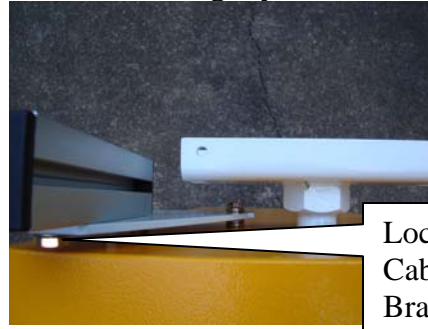
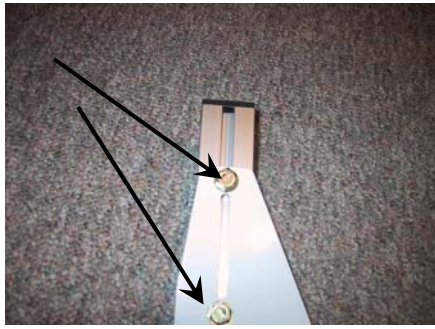
4.6. Connect the Leveling Rod to the Top Hinge

- Screw the newly threaded side of the Leveling Rod onto the bolt on the Top Hinge:



4.7. Connect the Leveling Rod to the Arm Holder Bracket

- Loosen the two bolts on the Arm Holder Bracket slightly:



Located between the Gate Cabinet and the Arm Holder Bracket

- Slide the Arm Holder Bracket top section approx. 2 inch up, and tighten the 2 bolts on the Arm Holder Bracket again.
- Connect the Leveling Rod to the top of the Arm Holder Bracket:



4.8. Gate Arm weight

The internal mechanism is designed to operate with the supplied Folding Gate Arm (Length and weight):

DO NOT USE INSTALL A DIFFERENT GATE ARM

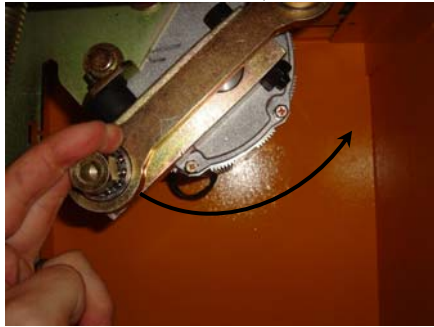
DO NOT ATTACH ANYTHING TO THE GATE ARM THAT AFFECTS ITS WEIGHT OR LENGTH

5. Testing and Adjustments

5.1. Adjustment of the Horizontal Second Segment of Gate Arm

- Adjust both the length of the Leveling Rod and the height of the Arm Holder Bracket, to make sure that the Second Segment of the Gate Arm remains perfectly horizontal during the opening and closing cycle.
- Tighten all adjustment screws.
- Manually test the movement of the Gate Arm, until you are sure that the Gate Arm can open and close without hitting the ceiling (or other potential obstructions).**

- **MAKE SURE THE UNIT IS POWERED OFF!**
- When powered off, the gate can be closed by simultaneously manually pushing the Gate Arm DOWN and pulling the Hinge Knob on the motor counter clockwise (turning it from 7 o'clock to 1 o'clock):



- When powered off, the gate can be opened by simultaneously manually pushing the Gate Arm UP and pulling the Hinge Knob on the motor clockwise (turning it from 1 o'clock to 7 o'clock):



5.2. Powered Test

- Once you are sure that the Gate Arm can move freely up and down without touching the ceiling or any other potential obstruction, connect the power, turn the gate breaker on, and test the movement of the Gate Arm using the push button switch on the controller on the white component panel.

IF YOU HAVE ANY COMMENTS OR SUGGESTIONS ABOUT THIS PRODUCT, OR THESE INSTRUCTIONS, PLEASE DO NOT HESITATE TO INFORM US:

info@enovar.com