

INSTALLATION GUIDE



Manufacturer of Disability Access Products

www.opensesamedoor.com

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BEFORE BEGINNING INSTALLATION WE HIGHLY RECOMMEND WATCHING THE INSTALLATION VIDEOS AT [OPENSESAMEDOOR.COM/RESOURCES](https://opensesamedoor.com/resources)

RECOMMENDED TOOLS FOR INSTALLATION

1. Ladder or Step stool
2. Tape measure
3. Voltmeter (for troubleshooting)
4. Phillips #2 Screwdriver
5. 5/32" or 4mm Allen wrench
6. Wire Cutters
7. Wire Strippers
8. Oscillating Multi Tool (recommended for Strike Installation)
9. Loctite (for arm screw if removed)
10. Drill/Driver with #2 & #3 Phillips Bits

2

WHAT WILL YOU FIND IN THE BOX

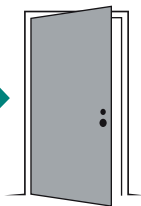
1. Door operator with wiring kit and wall transformer
2. Remote Control(s) – if required
3. Electric Strike(s) & Strike Tester – if required
- For Electric Strike Installation, refer to separate instructions included with the strike
4. Screw pack
 - a) 2 Phillips self tapping screws 1 ¼", for mounting arm to metal
 - b) 2 Phillips #10 – 2" serrated screws for mounting arm to wooden frame or door
 - c) 4 Phillips #8 – 1½" serrated screws for attaching mounting plate to door or frame
 - d) Hold-down screws for laying out transformer and strike wiring cables
 - e) Allen wrench 5/32" or 4mm for tightening the arm
 - f) Model 233 Clutch Adjustment Tool
5. Owners Manual - *Leave it with Owner with your contact info*

SELECTING THE CORRECT MOUNTING FORMAT

All doors displayed are viewed from the inside

A)

DOOR
MOUNT



LEFT SIDE HINGES

DOOR
OPENS
INWARD

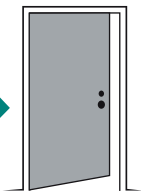


RIGHT SIDE HINGES

GO TO 3a

B)

LINTEL
MOUNT



LEFT SIDE HINGES

DOOR
OPENS
OUTWARDS



RIGHT SIDE HINGES

GO TO 3b

C)

PARALLEL
MOUNT



LEFT SIDE HINGES

OUTSWING
DOOR
+
WANT A WIDER
OPENING



RIGHT SIDE HINGES

GO TO 3c

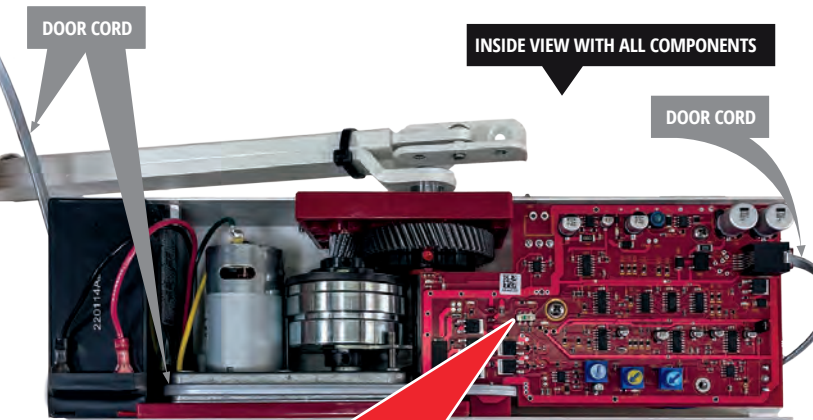
SAFETY NOTE

Secure door before starting process to ensure no one tries to open the door during installation.

FOR LEFT HAND DOOR CONVERSION THIS MODIFICATION IS NEEDED

Unless specified at the time of ordering, the operator is provided in the setup for Right Hinges. If you have hinges on the Left, you will need to change the direction of the wires.

Remove the cover of the door operator. Take the loose end of the door cord and run it under the circuit board and to the left. Bring the cord up through the circuit board slot and run it over the bottom of the gearbox. Pop the battery out and run the cord underneath the battery. Then take the door cord up and out the top left corner of the door operator. Be careful not to pinch, crease or damage the door cord.



DOOR CORD

INSIDE VIEW WITH ALL COMPONENTS

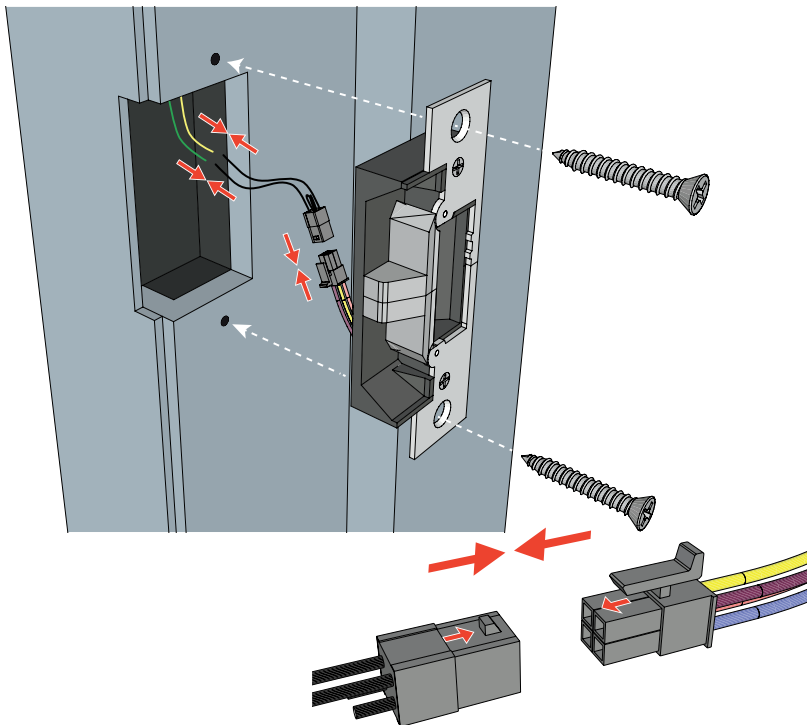
DOOR CORD

THIS SWITCH SHOULD POINT TOWARDS THE HINGES EXCEPT WITH A PARALLEL MOUNT WHERE IT SHOULD POINT AWAY FROM HINGES (WILL DETERMINE IF DOOR OPENS TO THE LEFT OR RIGHT)

IF YOU'RE USING ELECTRIC STRIKE (Adams Rite 7440)

If an electric strike is used, follow the instructions included in the packaging from the electric strike manufacturer to assemble the strike and install it in the door jamb.

STRIKE SETTING - Adams Rite 7440 Electric Strikes are provided in the "fail secure" mode which is required. Connect the green wire to one black strike wire (either one), and the yellow wire to the other black wire.



3a

DOOR MOUNT INSTALLATION INSTRUCTIONS FOR INWARD OPENING DOOR

****REMOVE COVER FROM OPERATOR BEFORE BEGINNING INSTALLATION****

**FOR MODEL 133
OPERATORS:**

Mount operator at 3" away from the hinges and mount the arm at 13" from hinges (unless it is used for commercial installation).

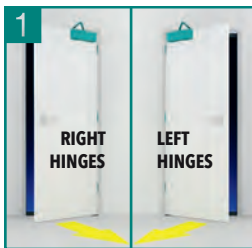
**FOR MODEL 233
OPERATORS:**

Mount operator at 4" away from the hinges and mount the arm at 13" from hinges.

FOR ELECTRIC STRIKE INSTALLATIONS:

Refer to separate instructions included with the strike

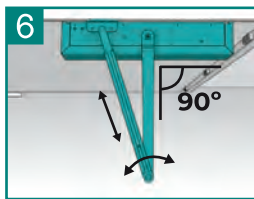
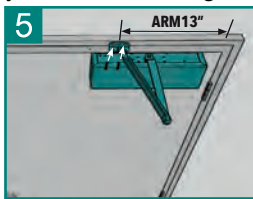
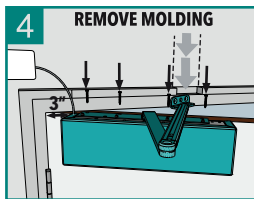
- 1 - operator will need to be on the top corner closest to the hinges.
- 2 - before beginning, secure door so it does not move during installation and set up your ladder/stool.
- 3 - on the door measure 3" away from the hinges for model 133 and 4" for model 233, then create a mark. This is where the operator will need to be positioned. On the door jamb, measure 13" and create a mark, this is where the middle of your arm will need to be positioned. The bracket will need to be as flush as possible with the wall. Do not mount this bracket at an angle.



- 4 - once you have the measurements down, position the operator and screw into position. Remove molding for flush mounting against the wall.

5 - Line up the arm with marking you did on the door jamb so that the middle of the shoe is position where the mark is, then screw into place. Do NOT mount arm shoe too high above operator because it will cause binding of joints leading to screws falling off.

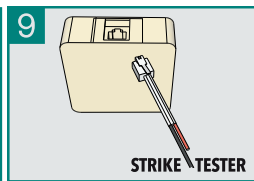
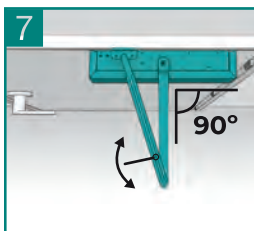
6 - With the door closed, adjust the arm to 90 degrees.



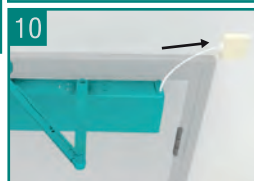
7 - After setting up the correct adjustment tighten the arm with the supplied 4mm allen wrench.

8 - Strike Connection: Connect Green and Yellow wires from phone jack to strike. Power Connection: Red & Black cables need to run from phone jack to transformer. Transformer is then plugged in to 120VAC wall outlet.

9 - Plug in Strike Tester to RJ-11 phone jack to test electric strike, you should hear a buzzing sound coming from the strike (Do NOT connect any wires to this tester).



10 - Connect the operator to the phone jack.



NOTE: Images are based on Residential Installation (Model 133)

3b

LINTEL MOUNT INSTALLATION INSTRUCTIONS FOR OUTWARD OPENING DOOR

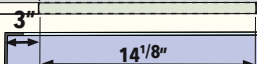
****REMOVE COVER FROM OPERATOR BEFORE BEGINNING INSTALLATION****

1

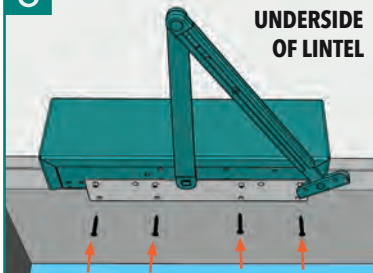
LINTEL MOUNTED OUTWARD OPENING DOORS

2

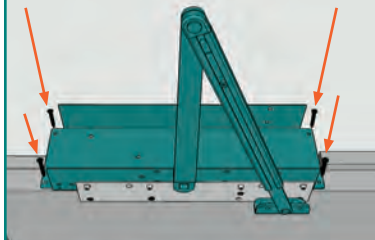
REMOVE MOLDING FOR FLUSH MOUNTING AGAINST THE WALL

**3**

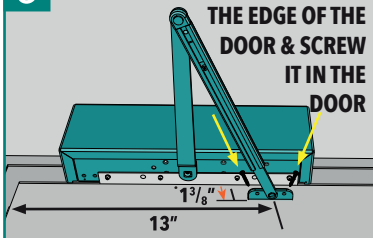
SCREW BRACKET INTO UNDERSIDE OF LINTEL

**4**

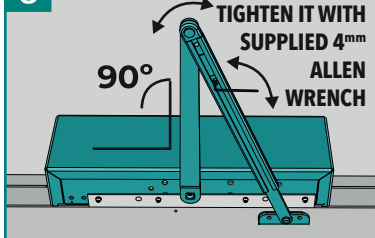
SCREW OUTER CASE INTO WOOD HEADER

**5**

POSITION ARM 13" FROM THE EDGE OF THE DOOR & SCREW IT IN THE DOOR

**6**

ADJUST THE ARM TO BE AT 90° AND TIGHTEN IT WITH SUPPLIED 4mm ALLEN WRENCH



Note: Position Model 133 at 3" and Model 233 at 4" away from hinges and mount arm at 13" from hinges. Mount arm shoe 1 3/8" down from top of the door.

3c

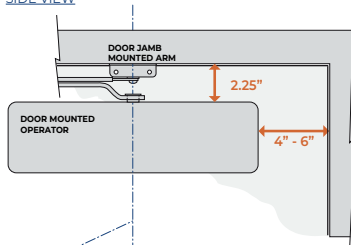
OUTSWING PARALLEL MOUNT CONFIGURATION

****REMOVE COVER FROM OPERATOR BEFORE BEGINNING INSTALLATION****

NOTE:

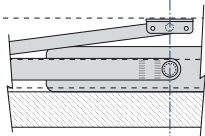
Direction slide switch on circuit board must be slid in direction away from hinges.

SIDE VIEW

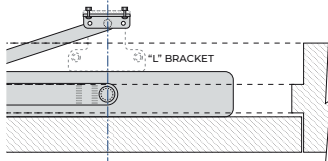


TYPICAL RESIDENTIAL PARALLEL MOUNT FOR STORM OR SCREEN DOORS

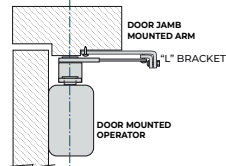
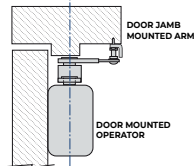
FROM ABOVE VIEW



TYPICAL COMMERCIAL PARALLEL MOUNT FOR OUTWARD OPENING DOORS



CROSS SECTION VIEW



NOTE:

Once operator is mounted as shown with arm parallel to the door jamb and the operator, RED DOT and RED SENSOR should be lined up causing RED LIGHT to come on when the operator is on.

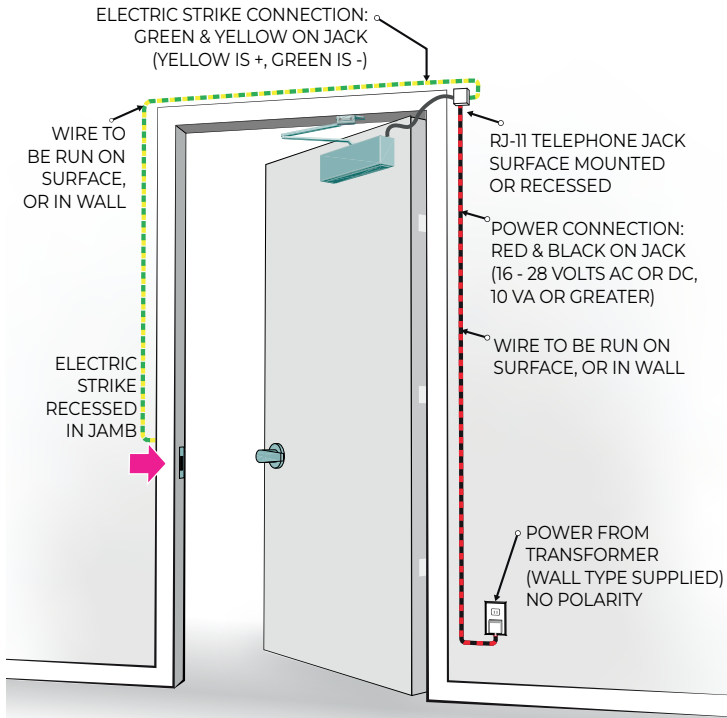
NOTE:

Will need to use a parallel mount "L" bracket to mount arm shoe. Once operator is mounted as shown with arm parallel to the door jamb and the operator, RED DOT and RED SENSOR should be lined up causing RED LIGHT to come on when the operator is on.

4a

WIRING - RESIDENTIAL INSTALLATION DIAGRAM USING SUPPLIED WIRING KIT

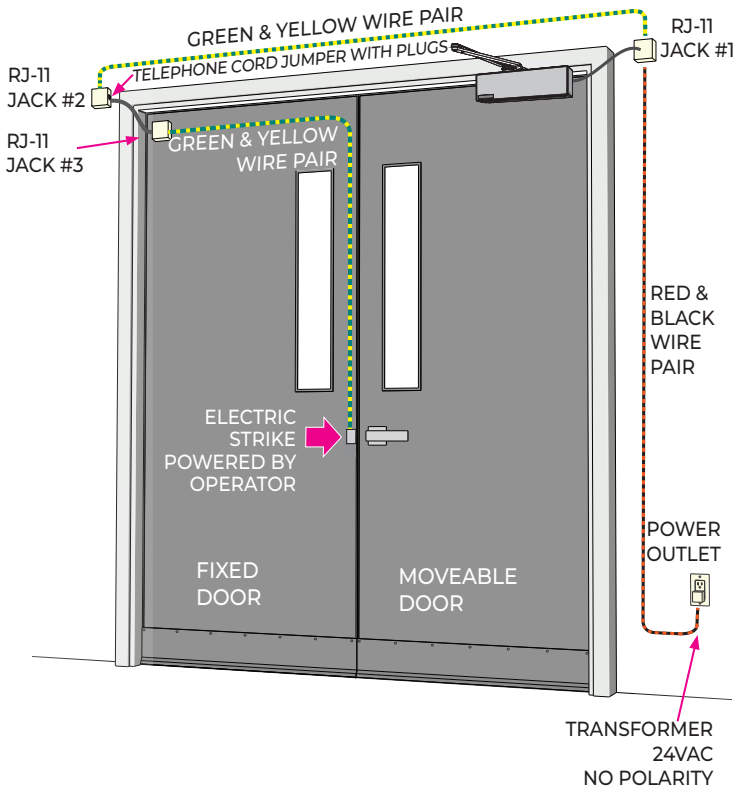
(FOR APPLICATION WITHOUT ELECTRIC STRIKES, REMOVE
GREEN/YELLOW WIRES FROM TELEPHONE JACK)



NOTE:
AN EXISTING DOORBELL
TRANSFORMER MAY BE USED IF THE OUTPUT IS 16 TO 28 VOLTS

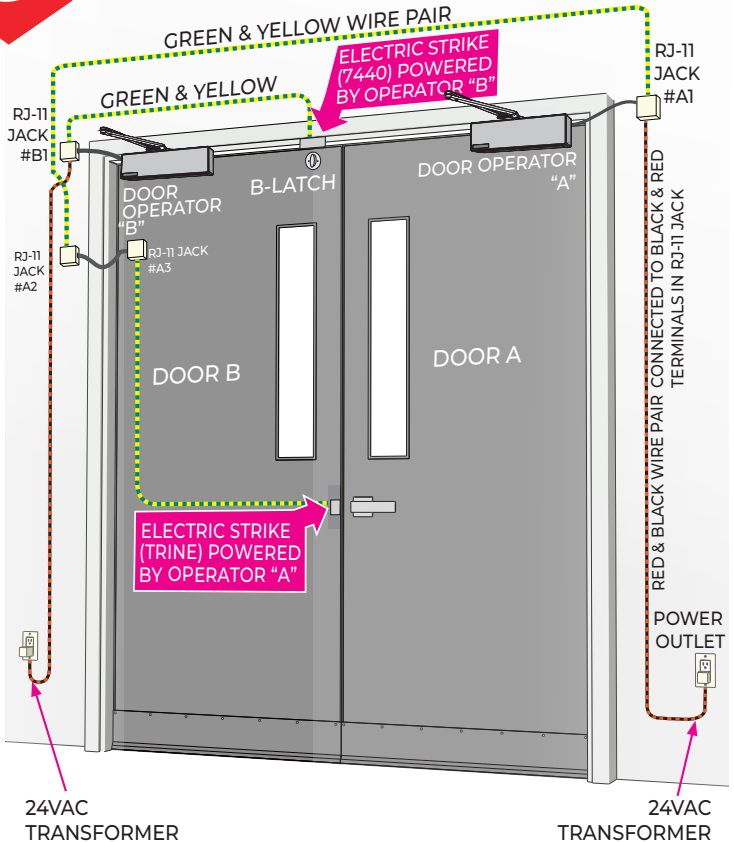
4b

STRIKE WIRING - FRENCH DOOR WITH ONE OPERATOR, ONE ELECTRIC STRIKE (PRE-WIRED KIT)



4c

POWER WIRING - DOUBLE DOOR WITH TWO OPERATORS, TWO ELECTRIC STRIKES



5

ADJUSTMENTS

Making sure the door closed sensor is aligned

Once the Open Sesame door operator is mounted and wired, turn the operator on. When the door is closed Red Dot and Red Sensor should be lined up causing the red light to come on. If this is not so, rotate the black disc until sensor align and red light comes on.

Adjustments

Your Open Sesame door operator has three potentiometers (pots/knobs) adjustments and one position jumper adjustment (auto-close). To change these settings at any point during or after installation you must first remove the Operator cover. The location of these adjustments are shown on the diagram on the inside cover of the operator. To remove the cover, loosen the two screws, top and bottom, on the cover.

Open door to access top screw. After screws are loosened, slide cover forward to remove.

Adjusting Close Delay (Yellow knob).

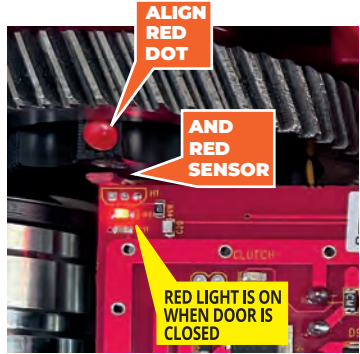
Turn clockwise to allow more time for people to go through the door before automatically closing.

Adjusting Opening Angle (Blue knob).

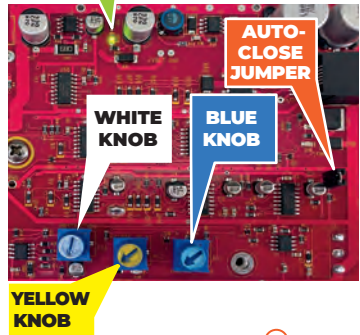
Turn clockwise for wider door opening.

Adjusting Obstruction Sensitivity

(White knob). Turn clockwise for heavier door or sticky door sweep.

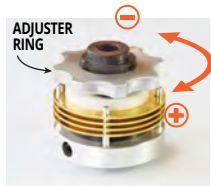


GREEN LIGHT WILL BE ILLUMINATED WHEN RECEIVING CHARGING VOLTAGE



CLUTCH ADJUSTMENT (for Model 233-2024 and later)

Adjust force applied to door during manual door opening, as well as powered opening. Can adjust for stronger force, for increased wind resistance for outward opening door, lighter for easier opening if stronger force not needed. Simply turn the adjuster ring clockwise for increased force, counter clockwise for decreased force.



(for Model 233-before 2024) Adjust force applied to door during manual door opening, as well as powered opening. Can adjust for stronger force, for increased wind resistance for outward opening door, lighter for easier opening if stronger force not needed. Simply adjust Red Ring on clutch. Rotate clockwise (as seen from above where the arm is attached) for increased force, counter clockwise for decreased force. A clutch tool (3mm) is provided to rotate the ring by placing it in one of the 6 holes along the edge.



6

REMOTE CONTROL PROGRAMMING INSTRUCTIONS

All current 433 MHz units with green (or green tipped) antenna wire

Standard Remote Control Transmitter

This transmitter is a visor transmitter which may be mounted below the wheelchair armrest or a side panel. A sensitivity paddle is included to make it easier to push.

1. Press momentarily and release the red program button located on top of the Open Sesame unit (1 second).



2. Within 15 seconds, press and hold the button on the transmitter you wish to use for 3 seconds or for Touchpad, touch the pad momentarily with a few fingers or your palm. Now your remote is programmed.

Keypad Programming

1. Press and release the red program button located on top of the Open Sesame unit (1 second).
2. Within 15 seconds, enter 1234 (factory default code), 1234 is now programmed into the system.

If you want to change the 4-digit keypad code:

1. Enter ##xxx, where xxx is your current 4-digit code (factory default is 1234).
2. Enter your new 4-digit code then,
3. Enter 1## - 4. Wait 5 seconds 5. Enter **



TO ERASE ALL TRANSMITTER CODES:

1. Press and then release the receiver programming button 5 times quickly (within 3 sec. time).
2. The light will flash 5 times, indicating that ALL remotes have been erased from the receiver memory.

NOTE: To reset code to factory setting of "1234", do the following:

1. Disconnect the battery
2. While holding down any button, reconnect the battery
3. Cont. holding button for 5 seconds.

ISSUE	CAUSE	SOLUTION
No Green (ON) light on the board	No power from transformer (no green light on the transformer)	Check outlet for Proper Voltage
	Wires disconnected from transformer	Check connection to the transformer
	Bad Transformer	Replace transformer
No red light on board	Operator is switched OFF	Move switch to ON position
	Misaligned "H" Sensor and red dot on disk	Realign "H" Sensor and red dot on disk
	"H" Sensor may not be close enough to disk	Push up "H" Sensor with your thumb, should be 1/8" away from disk
	Blown Fuse	Replace fuse - located in tubular fuse holder connected to orange battery wire.
	Bad top board	Replace top board
Door does not open	Red light on board not on	"H" Sensor and red dot not aligned
	Loose Connections	Check & tighten all connections
	Battery Failure	Refer to battery testing instructions. Turn operator off if recharging is needed or replace battery if it's 3-5 years old.
	Obstruction, weather stripping	Remove obstruction, thick weather stripping may need to be removed.
	Blown fuse	Replace fuse - located in tubular fuse holder connected to orange battery wire
	Bad Radio Receiver Board (if Test button does not work)	Replace Radio Receiver Board
Door does not open wide enough/to its normal width	Opening angle not adjusted	Adjust Opening Angle (blue knob on top board)
	Battery Failure	Recharge or replace battery
Door does not delay	Incorrect Close Delay setting	Adjust Close Delay knob (5-35 sec)
	Bad Top Board	Replace Top Board
Operator only works in one direction	Bad Bottom Board	Test by: Sliding Switch on opposite direction, open the door and hit test button (M133) door should open further if it doesn't then there is a bad bottom board. M233 door should open automatically. If it does not, replace bottom board
Door moves slower upon opening/closing	Weather stripping, dragging on door.	Remove anything that might be dragging the door. Thick weather stripping may need to be removed.
	Battery Failure	Recharge or replace battery
Strike does not release door latch	Clutch is engaging and keeps running so it wont let you open the door	Battery Failure-Turn off operator and recharge. Replace battery if it's 3-5 yrs old.
	Bad Wiring	See Detailed Troubleshooting on www.OpenSesameDoor.com
	Bad Door Cord or Bad RJ-11	See Detailed Troubleshooting on www.OpenSesameDoor.com
	Misaligned red dot sensor with sensor	Re-align red dot
Door goes the opposite way	Direction of Slide Switch towards wrong side.	Move Slide Switch towards hinges. With parallel mount, Slide Switch should be away from hinges.
Door does not close	Not enough force	M233: adjust clutch by rotating the red ring on the clutch. Note: You should not need to tighten the clutch all the way. If more force needed (both models) move shoe of arm in towards hinges and place middle of shoe on the next existing hole.
	Battery Failure	Recharge or replace battery