

EXIT TECHNOLOGIES LLC

FASTEXIT

SECURITY BAR RELEASE

Patent # 6634681

INSTALLATION MANUAL

FASTEXIT SECURITY BAR RELEASE INSTALLATION MANUAL

Thanks for purchasing the FastExit Bar Release. Fig. 1 shows what the FastExit will look like installed. Notice that the release operator (yellow) is located about 20 inches [50cm] from the edge of the window. This makes it more difficult for an intruder to open the bars by breaking the window and reaching in. If curtains are part of the décor, the curtains will generally be inboard of the release operator allowing it to be easily visible to those in the living environment.

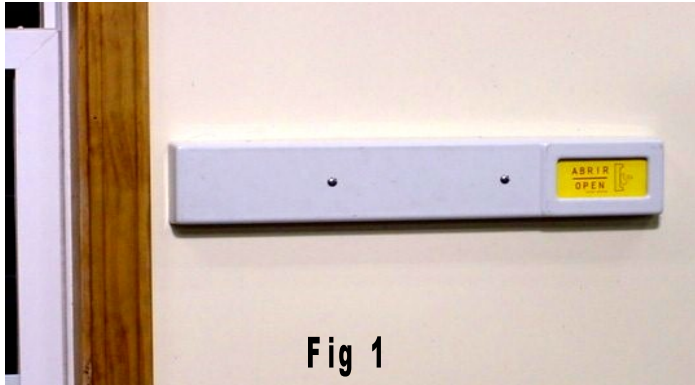


Fig 1

How it Works: The FastExit uses a very rugged and simple (patent pending) method to lock the bar shut. What makes the FastExit stand above the competition is that it opens with very little force so that even a child on the inside could release the bar for escape or rescue through the window.

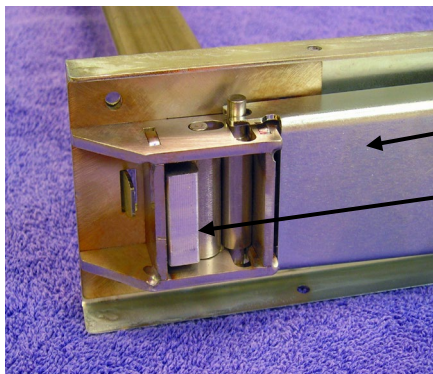


Fig 2

Locked

1
2
3

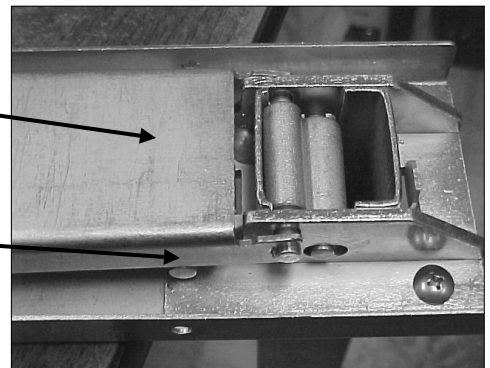


Fig 3

Unlocked

Pressing the (Open) sign on the Release Lever Fig 1 will cause the Latch Block Fig 2 [2] to be released from its captured position Fig 2 [2].

Pressing the release lever Fig 2 and Fig 3 (1) allows the lock pin Fig 3 [3] to drop (by gravity) forcing the release lever [1] to stay (up) open, even when the lever is released. This serves three purposes.

(a) The FastExit releases and stays released so that an innocent, accidental opening will be easily detected from inside the dwelling because of the depressed state of the release lever.

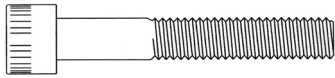
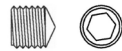
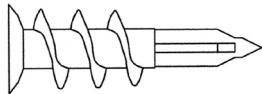

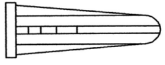
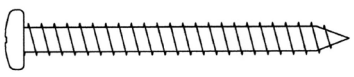
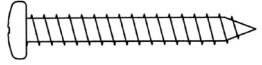
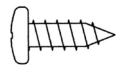

(b) The bar does not necessarily move open to give a (would be) intruder a signal that the way was clear to break and enter.

(c) Studies have shown that a release which opens momentarily and then re-locks, gives the occupant trying to open the Bar mixed signals.

Installing the FastExit on the left or right side of the window allows the lock pin to hold the release lever in the released mode. Recapturing the Latch Block is easy. Completely depress the release lever [6], feed the Latch Block [3] and cable into the square tube. It may require a bit of jiggling to push the Latch block [3] through the Latch bearing roller. When the cable and attached security bar is fully inserted, a small screw driver or large paper clip bent straight can be inserted through the Lock Pin access hole thus pushing the lock pin out of the way and allowing the return spring to return the release lever into the locked position. The bar is now captured and the label on the release lever is in alignment with the operator opening.

Hardware check

Check the hardware bag to familiarize yourself with the hardware and confirm that it's all there.

Item No.	Qty	Description	
3	2	8mm x 45mm socket head bolt	
5	5	¼ - 28 x ¼" long cone point SS	
21	2	Wallboard anchor for #8 screw	
2	1	8-32 x 5/16" Truss Hd Phillips machine screw (spare)	
22	2	Masonry anchor insert	
1	4	#8 x 1.75" [45mm] Sheet metal screw	
23	2	#8 x 1.25" [32mm] Sheet metal screw	
11	2	#8 x .5" [13mm] Sheet metal screw	
10	1	Attach bracket threaded nut plate	

20 1 .5 ml Capsule of Loctite #609

19 1 Yellow Label (ABRIR/OPEN) PAT# 6,634,681

Installation

Fig 4. Remove all parts from the box and unwrap the main unit from its protective wrapping. Remove the cover (13) and set it aside. Now remove the hairpin clip (7) from the pivot pin (4). Be careful not to lose this clip. Pull the pivot pin (4). Squeezing the unit at the pivot point which overcomes the force of the spring (8) makes removal of the pivot pin easier.

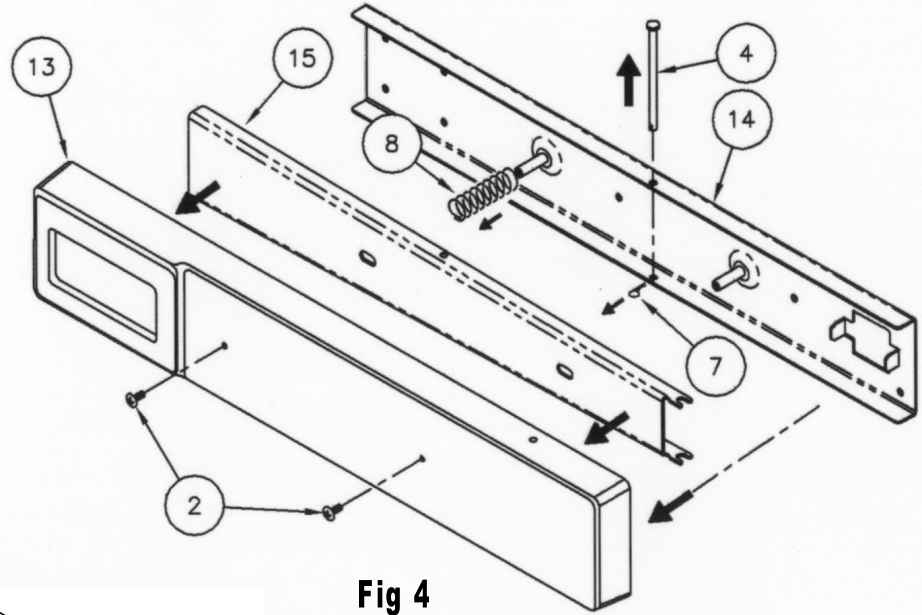


Fig 4

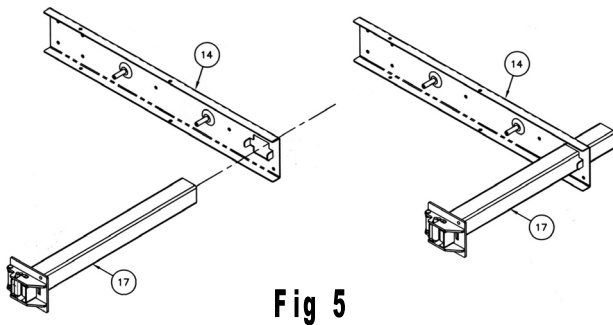


Fig 5

Insert the cable tube assembly into the release base Fig 5 (14). lining up the mounting holes in the base with those on the cable tube assembly. Using a large flat blade screwdriver, bend

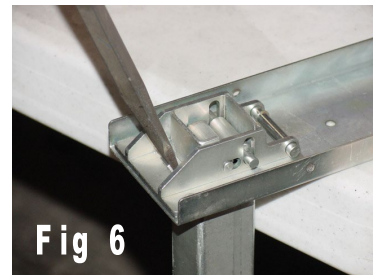


Fig 6

the tabs outward, mildly locking the units together Fig 6. It is not necessary to clinch the tabs firmly, however firm clinching of the tabs does not hurt.



Fig 7

Fig. 7 and 8: If the Bars are already mounted and hinged, you need to calculate where the bar attach bracket will be bolted so the hole for the cable tube assembly can be properly located. If allowable, the best location for mounting the cable tube and base assembly is very close to the outer stud of the window framing.

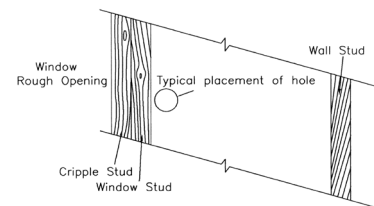


Fig 8

This gives a good solid base to drive the two main screws that anchor the FastExit base to

the wall. Using a 1 3/4" [45mm] hole saw, cut a hole through the wall. If you are equipped to do so, it may be easier to drill a 3/8 inch or 9 mm pilot all the way through the wall with a long bit and use the hole as a guide for lining up holes on the inside and outside.

Slip the tube and base assembly into the holes and out the back Fig 9. Using the bar attach bracket Fig 10. to estimate how far out from the window face the bars should be when closed, make a mark on the tube where it should be cut off Fig 11. Cut the tube off as square as possible and de-burr the edges Fig 12.

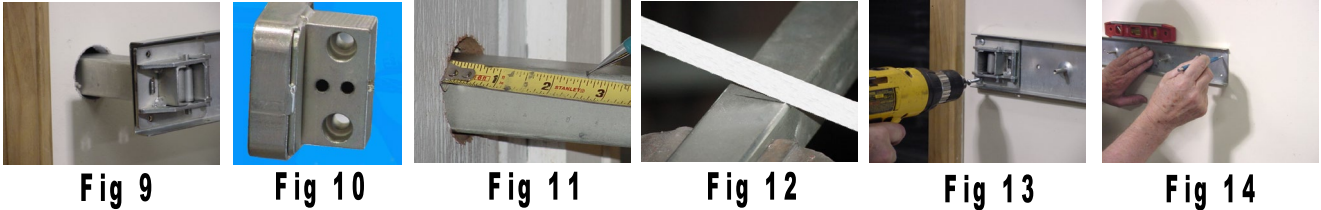


Fig 13 and 14: Mount the tube and base assembly to the wall using two of the #8 x 1.75" [44mm] long screws provided at the tube end. Before driving the second screw, level the unit and mark the screw holes in the other end. If by chance you find a pre-punched hole that lines up with a stud use the other two #8 x 1.75" [44mm] screws (1). If you don't find a stud that lines up with the holes, here are some options.

- a. find a stud at the right place and drill your own hole through the base. One or two solid screws will hold it firmly.
- b. If the only material behind the base at the operator end is wallboard, use the self drilling drywall screw anchors. Secure the tube and base with the #8 x 1/2" [13mm] screws (11).

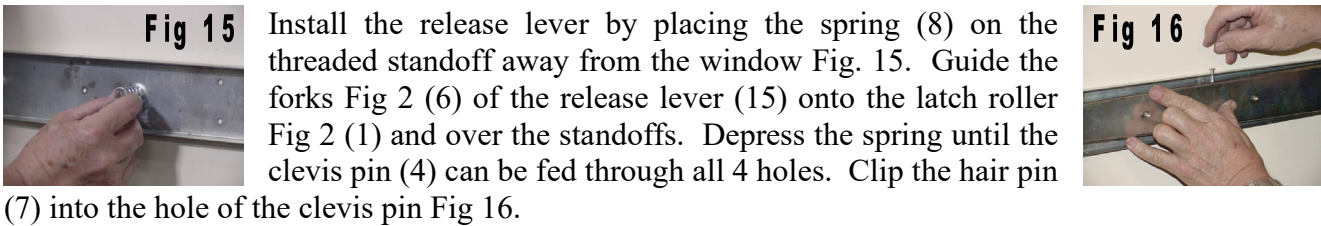


Fig 15 Install the release lever by placing the spring (8) on the threaded standoff away from the window Fig. 15. Guide the forks Fig 2 (6) of the release lever (15) onto the latch roller Fig 2 (1) and over the standoffs. Depress the spring until the clevis pin (4) can be fed through all 4 holes. Clip the hair pin (7) into the hole of the clevis pin Fig 16.



Locate the "OPEN" label Fig 17. so that the far end of the label is flush with the end of the release lever (15). Remove the adhesive strip protective covers, center the label vertically and apply. If the bar release will be installed on the opposite side of the window (from that shown in Fig 17), the other end of the label will be flush with the end of the release lever (15). The self adhesive strips are aggressive. If you are unsure that the label is going to look centered and square when you put the cover on, do trial run with Scotch tape until you are confident it will look right when the cover is installed.



Fig 17 ^a



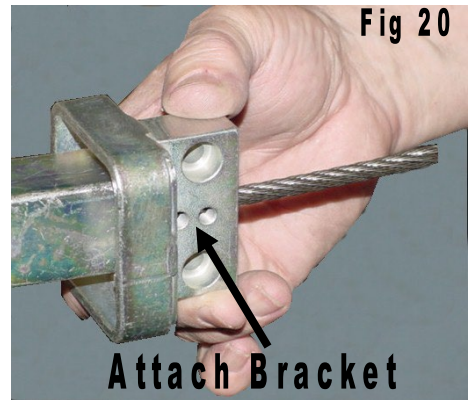
Fig 18: If this is your first installation, you might want to use a small screwdriver to exercise the lock pin Fig 3 (4). This will familiarize you with the purpose of the lock pin and how it interacts with the release lever (15) using gravity. The lock pin can be defeated with

tape, however we strongly recommend that you leave it operational. **Do not install the inside cover until later.**



Fasten the exit tube cover (12) in place with the hardware provided Fig 19. If the siding is wooden as pictured, use the 1.75" [45mm] sheet metal screws (1). If the outside wall is masonry, use the plastic masonry anchor inserts (22) and the 1.25" [32mm] sheet metal screws. For lap siding or masonry where the cover has large gaps or will not seat square on the surface, the ABS material is easy to cut and adapt to highly irregular surfaces. We suggest that you caulk around the cover and even lay a bead or fillet between the tube and cover.

Fig 20: Slide the latch block and cable into the tube with the lock tongue side toward the window side. Have someone depress the release lever so that the tongue will be able to move past the latch bearing roller Fig 2 (2). You will be able to see the end of the latch block as shown in Fig 2. With the latch block in place, use a small screwdriver or large paper clip to release the release lever (15) and "set" the lock. Just to be sure the latch block is locked, pull on the cable protruding from the tube, just to make sure it is locked. **CAUTION !- YOU WILL PROBABLY CUT THE CABLE OFF TOO SHORT IF THE LATCH BLOCK IS NOT FULLY IN AND LOCKED !!**



Slip the bar attach bracket (16) over the cable and slide it up to the end of the tube. It may take some counter clockwise twisting of the attach bracket as tolerance is quite close. Allow about 1.5 to 2 mm or 1/16th inch of play from the end of the tube to the attach bracket (16) for expansion and ease of locking. Make certain that the counter bore side of the attach bracket (16) is away from the bar or window and that the two smaller diameter holes on the attach bracket is facing toward the window.

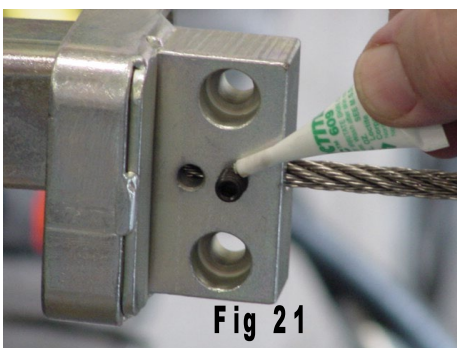


Fig 21: When the latch block position has been determined, and the bar attach bracket (16) is lined up with where it will attach to the window grill, drive a cone point set screw (5) into the cable to deter movement. Remove the attach bracket and cable assembly and clamp firmly using a clamp or vice, Using the 609 Loctite thread locker (provided), deposit a drop of loctite in each of the 4

remaining set screw holes or put a drop on each set screw and tighten the set screws firmly. Now remove the original set screw and put loctite on it before driving it home.

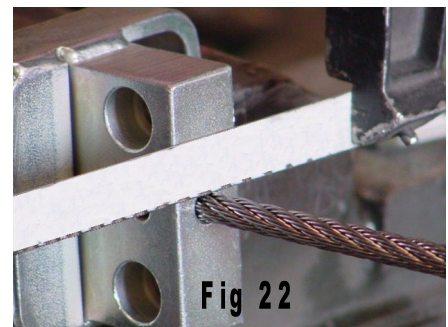


Fig 22: With the attach bracket held firmly, use a hacksaw or cut off disk, to cut the cable off flush with the bar attach bracket.



Fig 23



Fig 24



Fig 25

Fig: 23, 24, and 25: Using the supplied bolts (3) M8 x 45mm and the nut plate (10), bolt the bar attach bracket onto the vertical bar member opposite the hinges. To do this, use “C” clamps or welding grips to locate and hold the bar attach bracket (16) at the correct mounting spot on the bar or grill. Drill a hole through the bar or grill member. It is unlikely that you will be able to drill through straight enough for the nut plate to fit without re-drilling or grinding the hole a little larger. It helps to drill one hole through both sides of the tube and install one bolt. Then using the other hole on the attach bracket as a drill guide, drill the other hole, and install the other bolt. Be careful not to drill out the threads on the nut plate (10). When you are ready to assemble the attach bracket and nut plate for the last time, put a couple drops of the 609 loctite on the bolts or nut plate. There should be enough loctite to saturate the attach bracket cable connection. Hold the cable attach bracket assembly so the loctite can weep into and saturate the area where the five cone point set screws are gripping the cable. Now assemble the attach bracket to the bar member using the socket head bolts and nut plate. The loctite alone should be enough to keep an intruder from being able to loosen the bolts with a hex wrench. An additional safety procedure is to use a bit slightly larger than the allen hex and drill out the lands on the allen socket. Another method is to use a prick/center punch, and punch the top of the flats on the allen socket making it impossible to insert the proper sized allen wrench. When you have aligned the latch block, we recommend that you put some foam rubber between the end of the tube and the latch block to keep cold air from infiltrating the house if the unit is installed where winters are severe.

Setting the release: It is wise to set and release the unit a few times before installing the inside cover for the last time Fig 26. To “Close” the bars, press the “Open” lever until it stays locked open by the lock pin Fig 3 (4). Bring the bar closed. If it resists closing, press further on the “Open” lever until it is fully closed. Using a small screwdriver, push up on the lock pin until the lever snaps into the “closed position”



Fig 26

Use of lubricant: You should not need to use any lubricant on the rollers or slides – graphite or a lubricant which will not collect dust or dirt is allowable.

Covers: The outside cover can be cut to fit outside walls with large irregularities. Both the inside and outside covers can be painted. The inside cover can also be papered to match the wall décor. Just be certain that all of the holes necessary for operation are not covered. Open and close the unit several times after installing the papered cover to be certain that the unit operates.

For support, call USA 785-536-9931 or fax 785-536-4377

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