



BE A HAWK FOR SECURITY!



by
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Creation-ism and Evolution have engaged better minds than mine for centuries, and I'm not

about to get into that hassle here. What I am going to do is talk about creativity and the evolution of locks.

At least when I discuss locks I know that I have a fair-to-middlin' background in the subject, and better yet, I'm privileged to know some folks that always seem to be on the cutting edge of the creative technology that drives the evolution of locks and locking devices. I feel that being in that position, as well as being a writer for *The National Locksmith* magazine, gives me a soapbox where I can, from time-to-time, tell you about something new and interesting that might just make your day sizzle.

Today is one of those days!

I've never been shy about showcasing a product that I thought was worthwhile to us as locksmiths and beneficial to the security of our customers. Especially when one of the mainstay companies in our craft is the one who has developed that product.

Adams Rite has again, reinvented the deadlatch and has just made electrifying an aluminum stile door easier than ever with their new Steel Hawk, (*figure 1*).

Here is a product whose in-

novative design allows it to adapt to any handing, of any aluminum stile door (or, storefront

other benefits that add to the reasons that you should add the Steel Hawk to your inventory of security products that you sell to your customers. The Steel Hawk retrofits to 4900, 4500 and 4700 Adams Rite deadlatches, uses the same strike, and is compatible with existing paddles, handles and levers! Just open the box and install and hook up the power. This is truly one retrofit that is so easy that you'll get hooked on the Steel Hawk immediately. Or, should I say "right out of the box?"



Figure 1.

door, if you will.) right out of the box! More on that later. *Figures 2, 3 and 4*, show the sleek and interesting design of the Steel Hawk.

Aside from good looks, adaptability and solid security, the Steel Hawk's patented, two-way, winged latch bolt technology, along with its ease of installation are all features that can move you to the top of the security food chain when it comes to aluminum stile door security. All of that is evident in, *figure 1*. If you didn't take a close look at it earlier, thinking it was just "another" deadlatch, look again.

Now, let's take a look at some



Figure 2.

Figure 5, is the newer Adams Rite paddle handle. You have this and several other options available to you to develop entry/exit systems tailored to your customers needs.

Now, let's get into a little bit about the installation of the Steel Hawk. *Figure 6*, is a standard Adams Rite 1850 deadbolt, in a normal A/R prep on an alumi-



Figure 3.



Figure 4.



Figure 5.

num stile. *Figure 7*, shows the faceplate removed and at the top and bottom of the lock you can see the mounting bolts that hold the 1850MS in place. *Figure 8*, shows those same bolts penetrating the stile from the back, or “glass side” of the stile.

Figure 9, shows that same stile with the thumb-turn and mortise cylinder removed and the lock body ready to be lifted from the



Figure 6.



Figure 7.

prep. *Figure 10*, shows the stile with the lock body removed. The double-ended red arrow points to the holes in the back of the prep for the mounting screws. At this point, the Steel Hawk can be mounted in this prep.

In *figure 11*, the red arrows point the “standard” mounting bolts for any Adams Rite MS deadbolt or deadlatch.

In *figure 12*, the red arrow points to the screws that retain the lock cylinders, thumb-turns, cams, etc. You will note that the



Figure 8.



Figure 9.

configuration of the lock body is slightly different here then on an 1850.

The red arrow in *figure 13*, points to the “deadlatching” feature of the Steel Hawk.

Now, things are going to get a little interesting because there is a slight new twist to the 4300 that is not evident at first glance. This is not a big deal, but it threw me when I first began playing with the sample I was sent. *Figure 14*,



Figure 10.



Figure 11.

shows the winged latch of the 4300. Normally, if I had a latch in this position I would simply push it straight in to depress the latch. With the Steel Hawk latch, you have to push it from the side. See the arrow in *figure 14*. Once you apply the side pressure, the latch will depress. Regardless of the handing of the door, side pressure on the wing will allow the latch to retract, (*figure 15*).



Figure 12.



Figure 13.



Figure 14.



Figure 15.

Unless the door is closed and the deadlocking latch is depress and it normally would be with the door closed.



Figure 16.

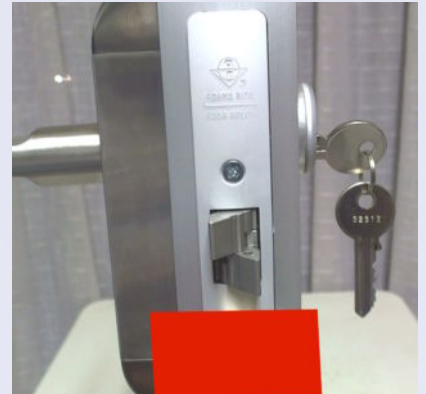


Figure 17.

That function might cause some confusion at first because if you simply depress the operating lever or turn the key, the latch WILL NOT retract, (*figure 16*). In spite of this seemingly malfunction, the Steel Hawk is functional, and if the door were closed and the lever was depressed and the door pushed in its opening direction, the latch would retract. Makes sense, right?

Okay, let's do it this way. *Figure 17*, shows the lock in the locked position on a door. The red rectangle represents the part of the strike that is depressing the deadlatch.

In *figure 18*, I am depressing the inside lever and getting ready to push the door outward (it's an out swing door, right?). Using my thumb to represent the strike edge that the winged bolt will contact as the door is pushed open, and with my first finger depressing the latch, I put pressure on the lock bolt and the bolt begins to retract as the door



Figure 18.



Figure 19.

“opens,” (figure 19).

In figure 20, the winged bolt, depressed by my thumb in this case, would be fully depressed and the door would be opened.

Figure 21, shows the direction of pressure at the top of the wing



Figure 20.

bolt if the door were an in swing door.

Figure 22, shows our theoretical door in the closed position after a person has entered, or exited the premises. Entry can be gained by a key or electronically. The Steel Hawk will interface access control systems and can be adapted to 12, 16 and 24 VDC. It is electrically rated for continuous duty for timed applications.

My summary

I think Adams Rite has done it again. I can't think of an easier way to really secure an aluminum stile door then with the Steel Hawk. It's tough, easy to install, has a wide range of applications and can interface with a wide variety of EAC systems.

I've been beating my elec-



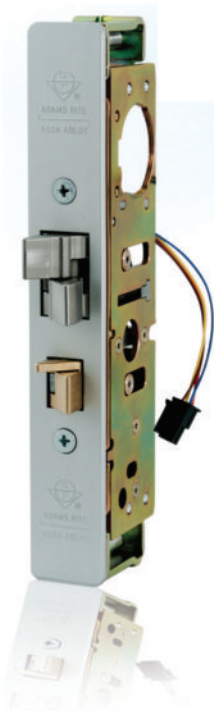
Figure 21.



Figure 22.

tronic access drum for years and telling all that EAC was becoming more and more user friendly and that the EAC products are getting easier and easier to install and use. I think the Steel Hawk bears that out.

TRL



For more information you can go to Adams Rites web site <http://www.adamsrite.com> or you can call them at 1-800-872-3267. You can also check with you favorite supplier for pricing and availability. Either way, this is an opportunity to soar like a hawk and catch some real EAC profits.



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