



Security Products
INCORPORATED

Trident
Multi-Point Deadbolt Exit Lock

Installation Instructions


Model # TEL-100 Manual Locking
TEL-200 Self Locking

**PLEASE REVIEW PARTS & INSTRUCTIONS
BEFORE INSTALLING
DOUBLE DOOR TEL-IAL INSTRUCTIONS
LOCATED IN TEL-IAL BOX**



Lastest Edition
11/23/2005

Anti-Pry Plate & Lock Thru-Bolts




(1) 13" Anti Pry Plate
Part# SS16-237

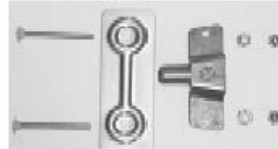
Bag "A"

(4) 1/4"-20 "K" lock nuts-
(4) 1/4"-20 acorn cap nuts-
(2) 1/4"-20 x 2-1/2" carriage bolts (Back)-
(2) 1/4"-20 x 2-3/4" carriage bolts (Front) -
(2) 1/4" Flat washers (Back)-
(2) 1/4"-20 Allen key cap nut -

Anti-Pry Plate Fasteners



**Hinge Side Bolt
Bag "G"**



(1) Hinge Side bolt-
(2) 1/4"-20 "K" lock nuts-
(2) 1/4"-20 acorn cap nuts-
(2) 1/4"-20 x 2-1/2" carriage bolts-
(1) Thru-bolt Plate-

**Top & Bottom
Module
Thru-Bolt Plates**



Bag "B"

(2) Thru Bolt Plates (Upper & Lower)-
(2) 1/4"-20 x 1-3/4" Carriage Bolts-
(2) 1/4"-20 x 3" Carriage Bolts-
(2) 1/4"-20 K Lock Nuts-
(2) 1/4"-20 Allen key cap nut-



Template



(1) Aluminum Door
Template (LH & RH)
(1) Self drilling
screw (taped to
label)

Shim




Bag "C"

(1) Shim- In case the
module needs to be
recessed-
(1) Hex head washer-
self drilling screw #14
x1-1/2 -



Main Lock Mechanism



Assembled
Main Lock Body
Top & Bottom Modules:
(Manual or Self-Locking
Lock Body)

Strike Plate




Bag "D"

(1) Strike plate-
(2) #14 x1-1/2 Hex head washer
self drilling screw -
(2) Self drilling sheet metal
screws for positioning-

**For Double Door
Installations, see
DDA Parts and INS**




Paddle



Bag "E"

(1) Exit Paddle
(2) 12-24x7/8"
Carriage Bolts
(2) 12-24 Hex Nuts



Pull Handle




Bag "F"

TEL- 100 Models ONLY
(1) Aluminum Pull Handle-
EA11-PHCD
(2) 1/2" Pan Philips Sheet Metal
screws- 08PPSM5




Channels



**Module
Covers**

(1) "A" Module cover
(1) "B" Module cover
(2) Aluminum
Channels w/ posts

Posts



Tools Required:
Hammer
Drill
Center Punch
7/16" Nut Driver
3/16" Allen wrench
1/8" Drill bit
1/4" Drill bit
3/4" Drill bit
3/8" Drill bit
Philips head screw driver

If installing Exterior Key Control, item A & Bag A have been replaced with items on Exterior Trim sheet. Please follow instructions provided.

Installation Instructions

1. Door Marking & Drilling

Make sure the door swings free and smooth before you begin the installation. Remove all old locks, exit device, any slide bolts or other hardware or brackets.

Make any adjustments to make the door swing FREELY before you start marking and installing.

Stand inside & close the door; mark a vertical line (A) along stop on the entire length of door.

Mark horizontal line 45-1/2" from bottom across width of door (B). *If installing a double door model, run line at least 4" across the inactive leaf. Height can be adjusted now, if needed.* Place metal marking template at intersection of both lines (C), with the "holier" end at the lock edge of the door.

Mark the center edge hole (D).

Remove template. Center punch pilot hole (D).

Fasten template to door with #8 self-drilling sheet metal screw.

Swing template horizontally and level with line "B". Mark 4 holes on lock edge.

Swing down and mark bottom 2 holes (E).

Swing up and mark top 2 holes (F).

Make sure template is always straight with vertical reference line when marking top & bottom holes.

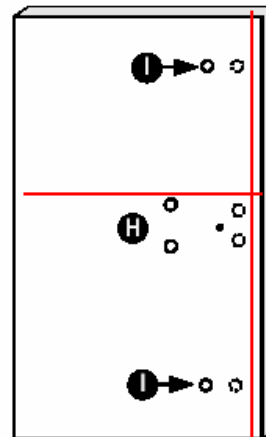
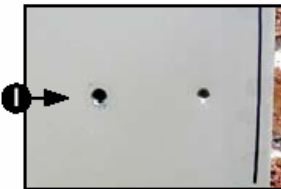
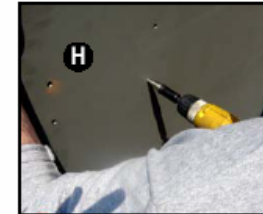
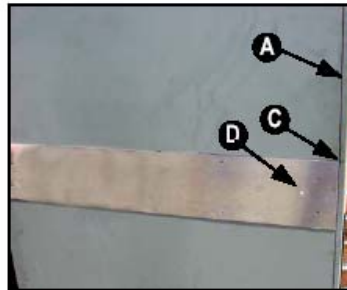
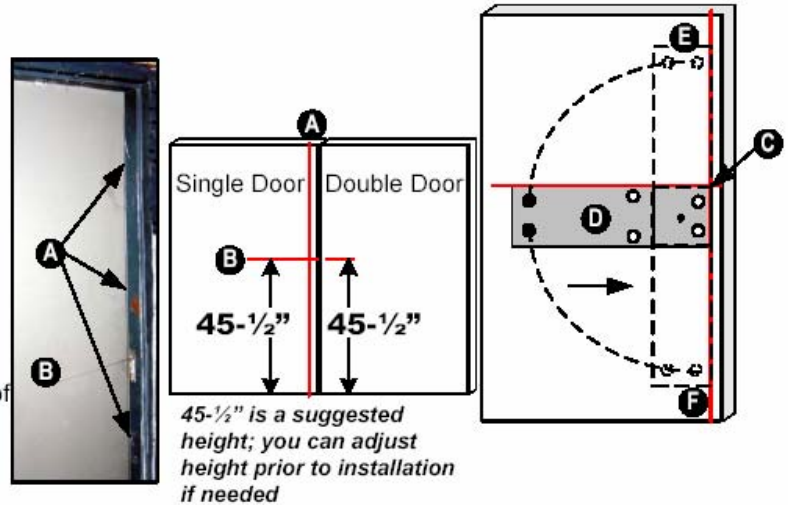
Refer to Step 6 to mark holes for hinge side bolt. Do not use metal template.

Remove the template. Punch the center point for all marked holes. Drill all 1/8" dia. pilot holes (G).

Do Not Skip This Step. MAKE SURE YOUR DRILL IS LEVEL WHEN YOU ARE DRILLING HOLES.

Drill all holes 3/8" dia. through the door (H) & (I).

If Exterior Key Control is being installed. Use template and drill holes at this point. See separate Exterior Key Control Instructions and parts list.



2. Lock Body

Fasten the anti-pry plate with 2 allen-head T-nut cap screws. Do not tighten completely.

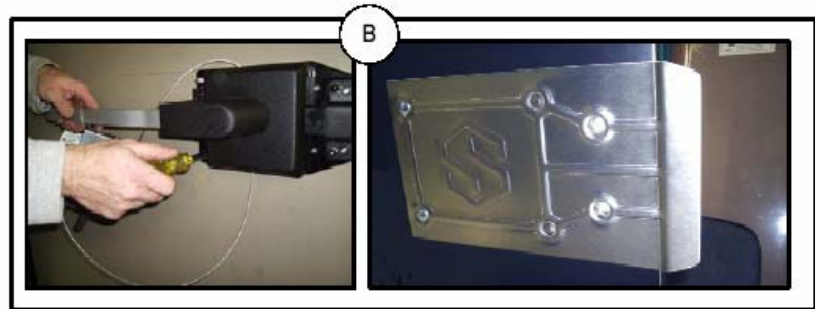
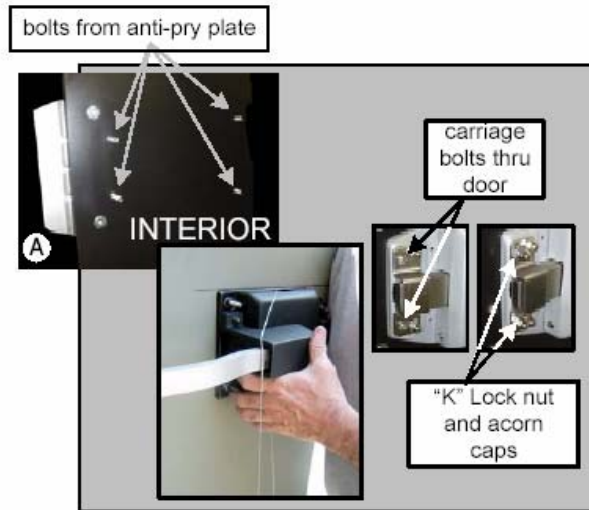
Align the lock body with the top of the horizontal reference line and fasten as follows:

Front Holes: 2-3/4" long carriage bolts, k-lock nuts & acorn caps

Rear Holes: 2-1/2" long carriage bolts, flat washers, k-lock nuts & acorn nuts

Tighten allen-head T-nut cap screws completely.

Do not compress door.

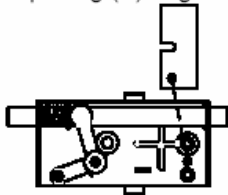


3. Top & Bottom Bolt Modules

Extend main bolt by pulling paddle or pressing trigger.



Fasten module to door with thru-bolt plate and carriage bolts. Fasten integral 3/16" allen nut with the 1-3/4" carriage bolt through the thru-bolt plate (A). Fasten loosely. Use 2-1/2" carriage bolt and k-locknut on lock edge opening (B). Tighten nut and then tighten 3/16" allen screw securely (C).



A shim has been provided for use under the front of the module and over the carriage bolt near the edge of the door, if needed. To see if the shim needs to be added, close the door and trace the deadbolt (as per instructions below). If the edge of the hole you will drill will be too close to the edge of the stop, use a shim to bring the deadbolt more to the inside of the stop.

BOTTOM MODULE

Repeat steps for bottom module.



Check for smooth operation
Manual Locking Models:
 Push and pull paddle arm
Self-Locking Models:
 Press trigger & push paddle arm.
Make sure bolts do not extend past vertical reference line.



If Installing On Double Door , Please Refer to TEL-IAL INSRUCTIONS

4. Strike Plate

Retract the bolt by pressing the paddle. Close the door.
Self-Locking models: Insert the plastic wedge between the paddle arm and the paddle arm cover to disable the self-locking.

Insert the strike plate with roller towards the outside (D).

Extend bolt and center in strike box. Top of bolt should be approx. 1/8" from top of strike opening.

Trace outline of strike box on frame.

Open door, place strike in outline.

Make sure strike is level.

Mark top and bottom strike plate oval mounting holes.

Remove the strike plate and mark the center of each oval. Center punch the mark.

Drill 1/8" dia. pilot holes (E).

Fasten strike to door with self-drilling M1 screws (F).

Ensure smooth operation:

Manual Locking Models: Pull paddle to extend bolt.

Self-Locking Models: Trigger should hit strike plate and project bolt.

Install 2 rear self-drilling screws (G).



5. Marking & Drilling Frame For Top & Bottom Bolts

Pull the door closed and extend the bolts as much as possible.

Keeping the door pulled against the door stop, trace the outline of the top and bottom bolts (D).

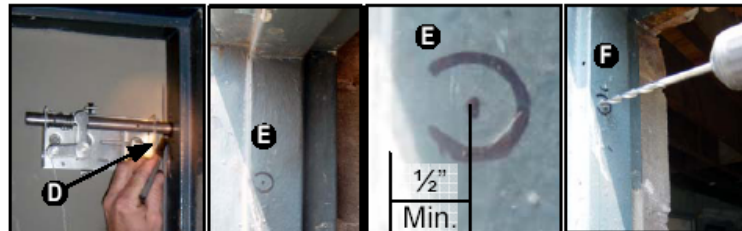
If the end of the hole is too close to the outside of the stop, use a shim as described above.

Open the door and mark the centers of the holes (E).

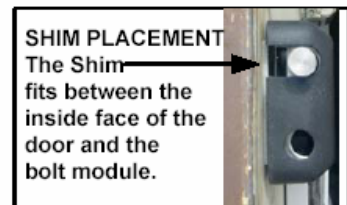
Center punch the point to be drilled.

Drill a 1/8" pilot hole (F).

Enlarge to 3/4" and remove all burrs (G).



The deadbolt dia. is 5/8"
A 3/4" hole, if drilled on center, should be sufficient.
If you feel any rubbing, check to see which part of the bolt is rubbing on the whole and grind or enlarge that side of the hole.



6. Paddle, Channels, Module Covers & Pull Handle

Paddle:

Fasten the paddle to the paddle arm with small carriage bolts and nuts. (A)

Channels:

Slide upper channel into lock body, center on cable. (B). The white posts should be near the main mounting plate.

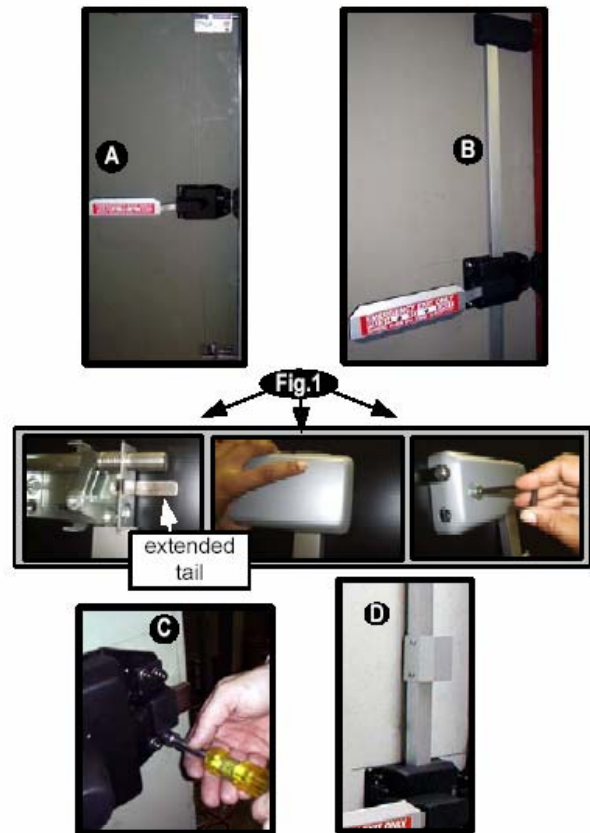
Module: see fig. 1

Place cover over module and channel. Fit extended tail into cover slot and work into position. Insert carriage bolt from exterior of door and fasten with the T-nut screw until secure.

Repeat for lower module.

Pull Handle:

Install pull handle on top channel approx. 8" above mounting plate using 2 self-drilling screws (D).



7. Hinge Side Bolt

With door closed, mark vertical line approx. 4" long at the point where the stop overlaps onto the door. Height should be approx. 50" from floor (height can vary).

With door open, place the Hinge-Side Bolt on door and recess 1/8" from the vertical line. Mark centers of thru-bolt holes.

Center punch holes. Drill 1/8" pilot hole. Enlarge to 1/4". Remove all burrs.

Fasten Hinge-Side Bolt to door with Thru-bolt plate, 2-1/2" carriage bolts lock washers and cap nuts.

Mark bolt location on frame. Drill up to 3/4" hole.

It is usual for this hole to be "Egg shaped" towards the outer edge of the door stop.

Remove all burrs and check for smooth operation.

