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***"REAL LIFE TRAINING"***

***www.BreachingTechnologies.com***

## BTI Hydraulic Tool Breaching Door Manual

Model Type: 09

BTI Part Number:

Door: HD

Stand: HDS

Revised: 01 August 2009

## **End Use License Agreement**

**BTI Breaching Doors are manufactured using a patented socket or panel system installed in the frame and door. It should be specifically noted that the Purchaser must use the BTI patented engineered pins or panels when breaching the door. Any use of a substitute product is strictly prohibited and would constitute a violation of BTI policy and thereby be in default of this Licensing Agreement notification. The proprietary information provided on the Serial Number plate attached to each door is meant to serve as a notification of the BTI Licensing Agreement.**

# **IMPORTANT NOTICE!!**

**ATTN: BREACHING TRAINER**

Please deliver this notice to the  
**BREACHING TRAINER**

**BTI Breaching Pins and/or panels are required and MUST be used for training on ALL BTI Breaching Doors. The use of substitute pins or panels will result in loss of warranty.**

Pins and panels can be obtained by going to our web site:

**[www.breachingtechnologies.com](http://www.breachingtechnologies.com)**

Contact BTI for a price quote by emailing:

**[delj2121@sbcglobal.net](mailto:delj2121@sbcglobal.net)**

Thank you for your purchase and use of the BTI Breaching Door system. This innovative and patented training device provides realistic training scenarios that are discussed on the following pages.

### **Warranty**

Your new BTI Training door includes a 1-year manufacturer's warranty that covers quality and workmanship. If at any time you are unsatisfied with this product or its operation, please feel free to contact us using any of the options listed under contacts below.

### **Replacement Parts**

Although we don't anticipate any items that would need replacing other than the skin of the door, please contact us to discuss these items.

### **Maintenance**

Paint scratches should be touched up to prevent rust from occurring. While any paint will suffice, we recommend *RUST-OLEUM* in Hammered Black.

### **Contacts**

You may contact BTI using any of the following methods:

Mail: Breaching Technologies Inc.  
P.O. Box 701468  
San Antonio, Texas 78270

Web: [www.breachingtechnologies.com](http://www.breachingtechnologies.com)  
Phone: (210) 590-5152  
(866) 552-7427 toll free  
Fax: (210) 590-5193  
Email: [delj2121@sbcglobal.net](mailto:delj2121@sbcglobal.net)

### **Caution**

**This BTI product weighs approximately 200 lbs. The door should be secured by insertion of a breaching pin or other means during transport and moving. The movement of the unlatched door can and has caused injury.**

## Breaching Door Operation

Your new breaching door has been designed to simulate an inwardly opening door for forced entry training. This door may be mounted in a structure such as a training or live fire facility, or may be utilized with the optional BTI Hydraulic Door Stand.

**Pins.** With the purchase of your BTI training door, you received a quantity of breaching pins. These patented pins have been engineered in both material and shape such that when used in conjunction with the BTI training door, the breacher experiences realistic forces.

Three types of pins are available for use with the BTI training door:

**Wood Type** - These pins simulate forces found when breaching a typical wood construction door/frame. This type of pin would normally be used to simulate a residential building breach.

**Metal Type** - These pins simulate forces found when breaching a typical metal construction door/frame. This type of pin would normally be used to simulate a commercial building breach.

**Reinforced Type** - These pins simulate excessive forces found when trying to breach a Reinforced door/frame. This type of pin would normally be used to train students on “secondary or plan B” scenarios. These pins offer approximately 50% more resistance than the *metal type* pins. These type pins are breachable, given enough force. It is suggested that 3 to 5 pins be utilized in this type of training scenario.

Although all three types of pins are identical in size, designation of each type of pin can be determined by color. As shown below, left to right are Wood, Metal, and Reinforced type pins. These are color coded clear, blue, and red respectively.



**Breaching Door.** Your new breaching door has been engineered to simulate many scenarios for forced entry training. As previously discussed, 3 different door construction types can be simulated utilizing the 3 different types of engineered pins. Additionally, 1 to 5 lock sets can be simulated utilizing the pin sockets located on the backside of the breaching door.

When used in conjunction with the 3 types of breaching pins, a total of 13 breaching scenarios can be simulated as defined below:

Scenario	Lock Set				
	1	2	3	4	5
1	wood				
2	wood	wood			
3	wood	wood	wood		
4	wood	wood	wood	wood	
5	wood	wood	wood	wood	wood
6	metal				
7	metal	metal			
8	metal	metal	metal		
9	metal	metal	metal	metal	
10	metal	metal	metal	metal	metal
11	Reinforced	Reinforced	Reinforced		
12	Reinforced	Reinforced	Reinforced	Reinforced	
13	Reinforced	Reinforced	Reinforced	Reinforced	Reinforced

After closing the door, the desired type and quantity of BTI pins are inserted into the sockets as shown below. The pin should insert a distance of approximately 1/4" into the socket when fully seated. Due to stresses and strains imparted upon the door structure during breaching, slight misalignments will occur over time. Accordingly, the system has been designed such that the amount of engagement into the socket is not extremely critical.



Once the door has been breached, the broken pins may not fall out or may partially fall out. A screw driver, or similar tool may be used (as shown) to remove the spent pins from the opposite direction of installation.



Spent pins may be extracted from the insertion direction utilizing a screw driver or similar tool as shown on the following page.



## **Breaching Door Installation**

The installation of the BTI training door is straightforward and most likely self-explanatory by visual examination.

**Caution:** Through our physical testing of actual doors during the development of this product, forces in excess of 3000 lbs. have been seen during a breach. Therefore it is advisable to anchor or mount your product accordingly. Typical house construction methods are not adequate for the numerous breaches for which this product has been designed. If you are unsure of your mounting methods, please consult a professional about these loads.

**Hydraulic Door Stand.** The Optional BTI Hydraulic Door Stand may be installed to allow the door to be utilized in a multitude of locations and scenarios. The stand includes the base plate, door braces and the necessary assembly hardware. The accompanying diagram shows the assembly.

**Wall Installation.** Installation of the BTI training door into an existing or new frame type structure is shown in the accompanying diagram. Provisions for mounting the training door in a “pre-hung” fashion have been provided in the four metal mounting ears and the frame guard as shown.

Alternate means of mounting such as face mounting or welding are up to the purchaser. However, BTI Inc. cannot warrant products, which are mounted in ways that weaken the frame or structure, or are inconsistent with our design and testing.

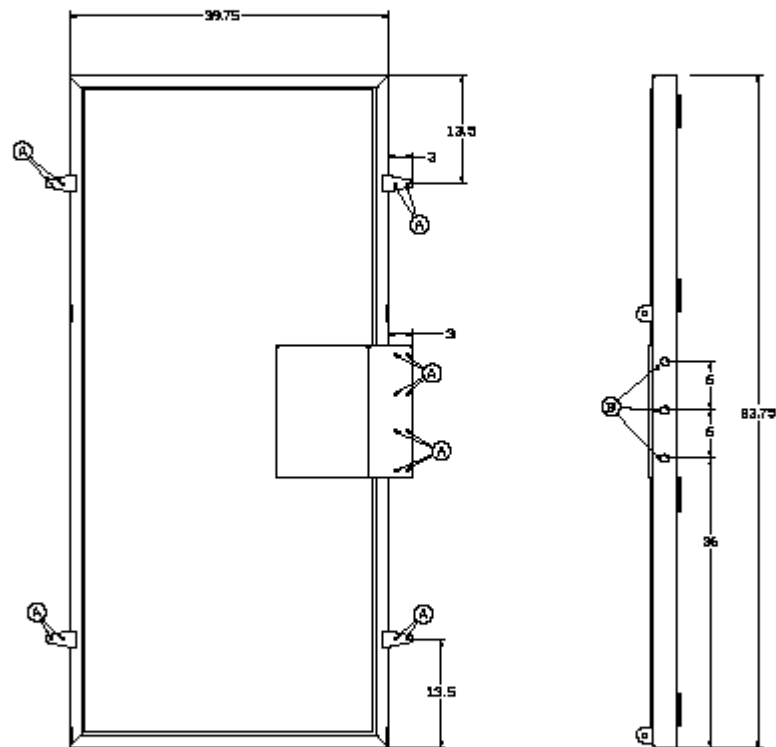
**Note:** When installing the door into the opening of a structure, it is advised that a provision be made to allow the ejection of stuck spent pins by poking from the backside of the doorjamb.

One method of accomplishing this is to place 3 aligned holes into the structure corresponding to the socket holes.

Another method is to shim the door in the opening and allow ½ to 1 inch of clearance in the area of the sockets. This will allow enough access to the backside to eject the stuck pins.

Although spent pins that occasionally stick into the socket after breaching may be removed by pulling with a hook-type tool, it is consistently easier to poke them out rather than pull them out.

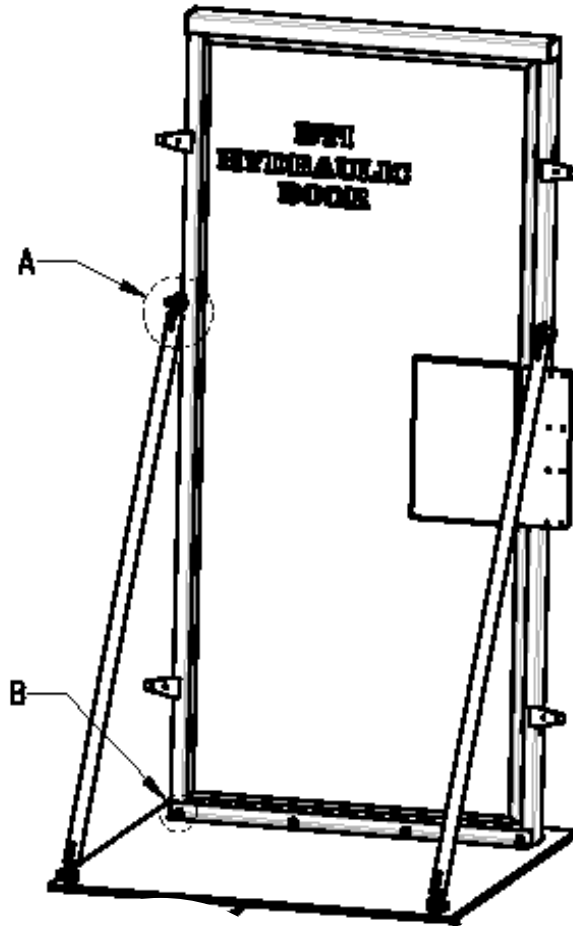
## WALL INSTALLATION



### INSTALLATION INSTRUCTIONS:

1. INSERT TRAINING DOOR INTO 39.75" X 83.75" OPENING AS SHOWN.
2. TRAINING DOOR IS THEN SECURED WITH CUSTOMER SUPPLIED 1/4" LAG BOLTS OR SIMILAR MEANS UTILIZING THE 16- 1/4" MOUNTING HOLES 'A' PROVIDED.
3. WHEN MOUNTING INTO WALLS, HOLES IN THE EXISTING FRAME SHOULD BE PROVIDED TO ALLOW THE REMOVAL OF SPENT PINS AT LOCATIONS 'B' ALTERNATIVELY, A 1/4" GAP OR MORE BETWEEN THE FRAME AND STRUCTURE IS NORMALLY SUFFICIENT TO EJECT STUCK PINS.

## HYDRAULIC DOOR STAND ASSEMBLY



### ASSEMBLY INSTRUCTIONS:

1. PLACE DOOR ON BASE PLATE (B) AND ATTACH USING THE  $\frac{1}{2}$ " X  $1 \frac{3}{4}$ " BOLTS.
2. ATTACH DOOR BRACES (A) USING THE  $\frac{1}{2}$ " X  $1 \frac{3}{4}$ " BOLTS.