

The

“CHALLENGER”[®]

Forcible Entry Training Door Simulator

By



“IT’S MORE THAN JUST A DOOR”

User’s Manual and Operating

Instructions

Model # RM-DR1-15AB

Warning:

Users of this equipment risk injury to themselves and others if it is used improperly and/or safety precautions are not followed. PEB Enterprises, LLC provides this user’s manual. It must be read in its entirety and understood for proper and safe operation. Failure to do so could result in damage to the prop, serious personal injury or death. This user’s manual is also designed to instruct you as to the proper manner in which to operate and maintain this prop. This manual is not however designed to give instruction on forcible entry techniques or training.

TABLE OF CONTENTS

IMPORTANT NOTICE.....	3
DEFINITION OF HAZARDS.....	4
OWNER, EMPLOYERS RESPONSIBILITIES.....	4
IMPORTANT SAFETY INSTRUCTIONS.....	5-6
OPERATING INSTRUCTIONS.....	6-8
WARRANTY INFORMATION.....	8
CONSUMABLES AND ORDERING INFORMATION.....	9
MAINTAINANCE AND REPAIR LOGS.....	9-10

IMPORTANT NOTICES

The use of large heavy door forcing equipment such as but not limited to battering rams, sledge hammers etc. are not approved devices for sounding or for direct forcing of the door. The strike plates are designed for impact /sounding by the use of fire dept. Haligans and Pro-bars only. Strike or sound on the yellow door plates only!

1. **Read this manual thoroughly** before assembling, operating, or maintaining this prop. By allowing operation of this prop you agree that you fully understand and comprehend the full content of this manual in its entirety.
2. **This prop** is designed for both indoor and outdoor use and should not be left outdoors in inclement weather. Prolonged exposure to water/moisture will eventually result in corrosion and rust causing improper operation or failure of components.
3. **The floor** on which the prop is to be used **must be of concrete or asphalt**. This prop is **not** designed to be used on grass or soft soils shifting, settling or tipping could result and damage to prop, personal injury or death could occur.
4. **Do not** attempt to set up or operate this prop if you have not read this manual in its entirety or have been instructed on the set-up and operational procedures.
5. **Never** attempt to lift components without proper lifting techniques or help. Stay clear of any moving parts that can fall and cause injury. These instructions must be followed to insure proper installation and operation of your prop. Failure to comply with these instructions can result in serious bodily harm, death and or damage to the prop.
6. **PEB Enterprises, LLC** will assume **no** liability for loss or damage of any kind, expressed or implied resulting from improper assembly, installation or use of this product.
7. **Do lubricate** all pivots, slides and shafts with grease on an annual basis. This is essential for proper operation to reduce friction and sticking of moving parts.
8. **The 4"x4" OSB plates** is a piece designed to be a Department/buyers responsibility as a continued supplied piece and is not available through the manufacturer. **DO NOT** use any other thickness or type of plywood for this portion, improper operation or premature damage to the prop pieces or department tools may occur.
9. **The wooden 2"x2"x9"** is a piece designed to be a Department/buyers responsibility as a continued supplied piece and is not available through the manufacturer.
10. **The 16" x 18" x 11ga. steel window plate** is available for order through the manufacturer by contacting us at PEBenterprises.com please see page 8 for ordering information. You may want to check with your local steel supplier or fabrication shop to custom cut these to save money on both bulk purchasing and shipping weight.
11. **The solid steel lock simulators** (designed for use with the "R" & "K" tools®) are reusable wearable items meant to be replaced when no longer usable; this patent pending part can only be reordered by contacting the manufacturer at PEBenterprises.com please see page 8 for ordering information.

DEFINITIONS OF HAZARD LEVELS

Identify and become familiar with the hazard levels used in this manual and sticker locations used on this prop with the following definitions and signal words. Failure to follow DANGER, WARNING and CAUTION instructions may lead to serious personal injury or death to the operator, bystander and or cause damage to the prop.

DANGER!

It Means: Immediate hazards which will result in severe personal injury or death.

WARNING!

It Means: Hazards or unsafe practices which could result in severe personal injury or death.

CAUTION!

It Means: Hazards or unsafe practices which may result in minor personal injury, product or property damage.

OWNER / EMPLOYER RESPONSIBILITIES

- Shall ensure that prop operators are qualified and that they are trained in the safe use and operation of this prop, have read, viewed and comprehend all supplied materials and operate and assemble this prop according to the manufacturer's instructions.
- Shall establish procedures to periodically inspect the prop in accordance with the manufacturer's instructions.
- Shall establish procedures to periodically maintain the prop in accordance with the manufacturer's instructions and the Employer Shall ensure that maintenance personnel are qualified and that they are adequately trained in the assembly and operation of this prop.
- Shall maintain the periodic inspection and maintenance records recommended by the manufacturer. See pages 8-10 of this manual.
- Shall display the prop manufacturer's operating instructions and shall not modify the prop in any manner. Any modifications performed shall immediately void the Warranty.

IMPORTANT SAFETY INSTRUCTIONS
READ THESE SAFETY INSTRUCTIONS ENTIRELY!

Do not attempt to set up or operate this prop if you have not read this manual in its entirety or have not been instructed on the set-up and operational procedures or have viewed the supplied DVD. Never attempt to lift heavy components without proper lifting techniques or help.

1. **READ ALL INSTRUCTIONS.**
2. **READ AND UNDERSTAND** all safety warning procedures before operating prop.
3. **DANGER! To prevent injury a minimum of 3 people must be used** when tilting and moving the prop on its wheels. **Ensure that the 3 wheel is locked** in place when raised before attempting to tilt the door onto its wheels. **Do not attempt to pull the door backwards** if the third wheel lock is broken, missing or does not latch. Severe injury could result!
4. **KEEP HAIR, LOOSE CLOTHING, FINGERS, AND ALL PARTS OF THE BODY AWAY FROM MOVING PARTS.**
5. **KEEP HANDS AND FEET CLEAR.** Remove hands and feet from any moving parts. **AVOID PINCH POINTS.**
6. **KEEP WORK AREA CLEAN.** Cluttered work areas invite injuries. Clean up wood scraps immediately after each personal use. Keep all tools not being used staged a safe distance away to prevent trip and fall incidents.
7. **CONSIDER WORK AREA ENVIRONMENT.** Do not expose equipment to rain. **DO NOT** use in damp or wet locations.
8. **ONLY TRAINED OPERATORS** should operate this prop. All non trained personnel should be kept away from work area. Never let non trained personnel come in contact, operate or assemble this prop unless supervised by a trained and qualified instructor.
9. **REMAIN CLEAR** of prop when in use. Anyone not actively involved in the use of the prop should stand clear of swinging and prying tools a minimum of 15 feet. This is also to avoid flying wood and metal from the prop or sparks from the K-12 or hand tools.
10. **DRESS PROPERLY.** Non skid steel toe footwear is recommended when operating the prop. **All PPE MUST** be properly worn when working on or around the prop just as you would on the fire ground. Base plate is slippery when wet, keep dry.
11. **ALWAYS WEAR SAFETY GLASSES.** Everyday eyeglasses only have impact resistant lenses. They are not safety glasses. Full eye or face shields are recommended when cutting, prying or striking is being performed. Follow all tool manufacturers' instructions when in use.
12. **MAINTAIN WITH CARE.** Keep prop clean for better and safe performance. Follow manual for proper lubrication and maintenance instructions. Keep all surfaces dry and clean and free from grease and oil.
13. **STAY ALERT.** Watch what you are doing. **Use common sense.** Be aware!

IMPORTANT SAFETY INSTRUCTIONS cont.

14. **CHECK FOR DAMAGED PARTS.** Check for alignment of moving parts, breakage of parts or any condition that may affect its operation. Do not use prop if any component is broken or damaged.
15. **NEVER** remove safety related components or labels from the prop. Always have a copy of this user's manual readily available for all operators. Replaceable safety stickers are available by contacting the manufacturer at PEBenterprises.com

OPERATING INSTRUCTIONS

IMPORTANT NOTICE!

The following operating instructions must be followed as outlined to prevent damage to the prop and or equipment. Failure to comply with these instructions can result in serious injury, death and void product warranty. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied resulting from improper installation or use of this product.

BY PROCEEDING WITH THE OPERATION OF THIS PROP YOU AGREE THAT YOU FULLY UNDERSTAND AND COMPREHEND THE FULL CONTENTS OF THIS MANUAL.

Moving and Placing the Door Prop

1. Find a ***flat clean and level surface made of concrete or asphalt*** to place the door prop. To safely move the door prop on its wheels ***use 2 or 3 people***, one person ***raise and lock the third leg*** and pulling back on the upper handle while the second and third person grasps the 2 handles on opposite side (part of the K-12 saw tree) and lift upward using their legs, slowly tilt and lower the door onto the third wheel assembly. **NEVER TILT THE DOOR WITHOUT THE 3RD WHEEL ASSY. RAISED AND LOCKED IN THE UP RIGHT POSITION!**
2. ***The door is designed to be pushed and not pulled.*** If you pull the door backwards ensure that the 3rd wheel is fully locked into place. If the wheel is not locked and the door is pulled backwards the 3rd wheel could quickly stop on gravel, debris or bay door threshold lip causing the wheel to fold under and the door to quickly and very forcefully fall to the ground possibly causing severe injury.
3. Once the door is on a suitable hard flat surface you can now level the door to remove any movement of the door by simply pushing the door back towards a third corner and hand tightening the opposite base leveling bolt until contact to the hard surface is felt. Just remember to completely back off both bolts before moving the door again. Now fold out the 2 base extension plates.

Using the K-12 Saw Tree

4. When placing rebar into the receptacles **do not install pieces horizontally no longer than 24" long**. Longer pieces will create trip hazards and injuries to the face or head if someone were to walk by it or rise up into it. The attachments will accept up to $\frac{3}{4}$ " #6 rebar. After inserting cutting material allow approx. 6" to stick through on the either side and aggressively tighten the retaining bolt using a $\frac{3}{4}$ " box end wrench or ratchet, periodically recheck after cutting, vibrations from the saw may loosen the retaining bolts. To save materials cut short half to $\frac{3}{4}$ " pieces. Remove any uncut material immediately when not cutting.

Using the Hinge/Flat Plate Cutting Attachment

5. When cutting hinges or flat plates place the desired size hinge into the hinge attachment and allow the hinge to stick out the same distance as a hinge appears on a door, the same for flat plate and secure tightly the retaining bolts. By learning how to hold and control the K-12 saw it is possible to cut hinges and flat bar without cutting or contacting the face plates of the hinge attachment, thus prolonging the life of the attachment. The use of flat plate saves money and is just as realistic as hinges.

Commercial Door K-12 Plunge Cutting

6. To use the K-12 to plunge cut the window plate to simulate a commercial door with panic bar hardware **do not place any 2x2 into the receptacle and make sure the panic bar is in the latched position and is the only device keeping the door closed**. Insert a 16"x18"x1/8" plate into the window channel and secure with the thumb screws. It is possible to achieve up to 24 cuts into this plate before replacement is necessary. It is recommended that since the K-12 is a "Right handed saw" to start your cuts to the far left of the plate, so the following students or personnel can see and start their cut as close to the last cut as possible. Bring the saw up to max RPM and start the cut to the left and centered (top and bottom) of the plate. Once the blade goes through allow the saw to do the cutting stop before the blade hits the window channel. Remove the saw, cut it off and place it on the ground, take a framing square or other commercial device and place it through the cut that was just made and hook the panic bar and pull towards you opening the door.

Using Hydraulic Forcing Tools

7. **Note: It is necessary to remove the lock pull simulators from the door for access in gapping and to allow room for the head of the hydraulic tool for inward forcing function.** To use hydraulic forcing tools **first ensure that the front latch bolt is locked out and place a 2x2 into the front receptacle and lightly tighten the "T" handle** (this pushes the door tightly against the rabbet or jamb stop). **Locate the PRY ZONE, gap the door using the irons, place and activate your hydraulic tool anywhere within this zone.** Any forcing or prying outside this zone may cause damage to the 16 ga. door covering.

Inward and Outward Forcing

- Note:** It is necessary to remove the lock pull simulators from the door for access in gapping the door to allow room for the adze end during inward forcing function. When forcing the door inward or outward with Haligan or Pro-bars you can use with or without the front latch bolt latched (you can achieve a greater gap with the latch bolt locked out). Place a 2x2 into the receptacle and hand tighten the T handle (you do not always have to use a 2x2 for this function, in real life the door will open as soon as the latch bolt clears). However using a 2x2 simulates additional locks or latches that maybe used on the other side of residential or commercial doors that you can't always see and provides a more realistic force that is needed to completely open the door. Remember to keep the Haligan or Pro-bars in the PRY ZONE or damage may result to the latch bolt or the 16 ga. door covering. **USE ONLY FACTORY CUT 2X2's, DO NOT RIP ANY SIZE LUMBER TO THIS DEMENSION!**

Through the Lock Methods

- The Challenger door simulator allows you to utilize your "R" and "K" tools as designed by the manufacturer with its patent pending lock simulators. Use only 7/16" OSB cut into 4"x4" squares with a 1/2" hole drilled in the center, place the supplied 1/2" grade 8 flange head bolt through the OSB plate then through the door and screw on either the small commercial rim lock style simulator (K tool) in the **top hole using the short 3" orange flange headed bolt** or the large dead bolt simulator (R tool) into **the lower hole using the longer 3-1/2" green flange headed bolt**. HAND TIGHTEN ONLY! Use the tool as described by the manufacturer. **Ensure that when you are ready to pry the lock simulators off the door that you pry upward on the haligan or pro bar in the opposite direction that it was hammered in as stated by the manufacturer not downward.** As you pull each lock you can use the different tools that come with your "K" and "R" tools to actuate the corresponding latch bolt assemblies mounted on the side, showing the student the final step for through the lock forcible entry

Combination and Pad Lock Cutting

- The combination and pad lock cutting attachment can accept a wide range of various size and strength locks. This attachment allows you to show students the many ways of cutting and braking different style locks with a K-12, bolt cutters or even the Haligan or Pro-Bars.

Warranty Information

Your "Challenger" Forcible Entry Door Simulator is proudly built in the USA and comes with a 1 year craftsmanship warranty (welds and operation). Because of the type of work practices you're "Challenger" Forcible Entry Door Simulator is designed to endure PEB Enterprises, LLC cannot warranty against physical damage to components that are not designed to be cut, struck or pried on such as but not limited to the panic bar assembly, threads, bolts, nuts, frame, latch bolt assembly the door 16ga sheet metal covering or the powder coat finish against chips and scratches. PEB Enterprises, LLC reserves the right to void the warranty against improper assembly, operation/use and modifications made without prior written consent from the manufacturer.

CONSUMABLES AND ORDERING INFORMATION

Your “Challenger” Forcible Entry Door Simulator has several “consumable” parts that once no longer usable can be reordered by contacting the manufacturer.

1. The 16” x 18” 11ga (1/8”) window plate
2. The solid steel dead bolt simulator
3. The solid steel flush mount lock simulator.

To order please contact us at PEBenterprises.com and supply the following information

1. Please give description of the part(s)
2. Specify quantity for each part
3. Shipping address
4. Contact information
5. Purchase Order number

Helpful note: Due to the constant change in steel prices and shipping costs, to help you save money on material and shipping when it comes to the metal consumables such as plates and rebar, please check with your local steel supplier, or fabrication shop and buy bulk. This will also decrease your down time of your prop.

PEB Enterprises, LLC wants to thank you for your decision and purchase of our Forcible Entry Training Door Simulator. We hope you will find this prop very useful and important to your department’s constant training needs for many years to come. If at any time you have any questions, comments, need technical assistance or replaceable parts please contact us at 757-715-4334 or at PEBenterprises.com

MAINTAINANCE AND REPAIR LOGS

The manufacturer recommends that you lubricate all pivots, slides and shafts with a spray grease on an annual basis or every 6 months for higher frequency usage. This is essential for proper operation to reduce friction and sticking of moving parts. A spray lithium type grease is recommended. Lubricate wheels annually with a grease gun at the grease fittings.

The owner/employer shall inspect the prop before each use for any broken/bent pieces, loose fasteners, missing or damaged safety components or labels, misaligned or out of adjustment parts that could jeopardize operator safety or damage to the prop.

