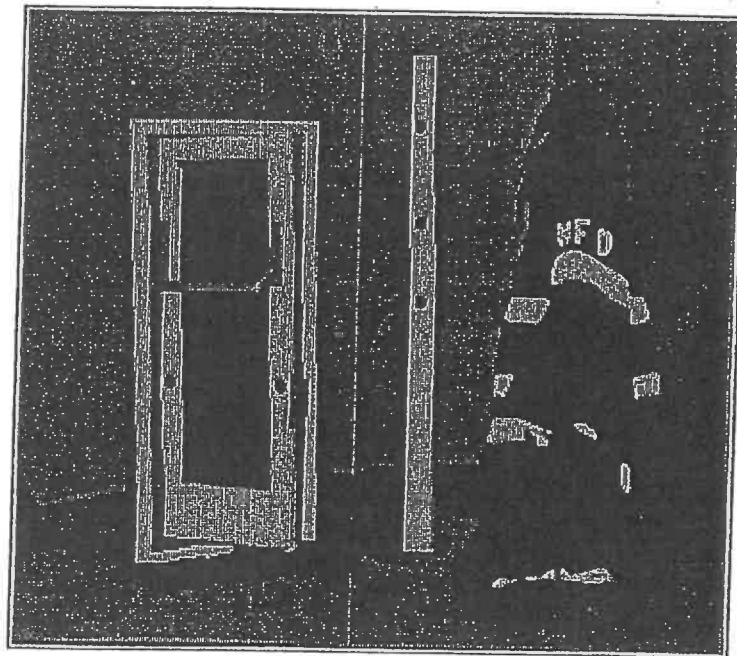


The Forcible Entry Training Station [FETS[®]]



USER'S MANUAL
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TABLE OF CONTENTS

	<u>PAGE</u>
I. INTRODUCTION	2
II. DESCRIPTION	3
III. INSTALLATION / SET-UP	4
IV. OPERATION	5
V. MAINTENANCE / LOCK REPLACEMENT	7
VI. PARTS IDENTIFICATION	8

APPENDICES

A. DIAGRAMS	9
1. DELUXE DOOR AND PRACTICE RAIL	
2. ULTRA DOOR (Deluxe door with "Magna-Force" attachment)	
B. WARRANTY	11

I. INTRODUCTION

The FETS® is a Forcible Entry Training Station, the purpose of which is to provide fire-fighting, police, and emergency personnel with risk-free training in quick and efficient "thru-the-lock" entry -- without damaging the door.

By affording a means for practice and skill development, FETS® trainees operate with minimal hazard to their safety. FETS® training results in eliminating the need for breaking glass, tearing away re-enforcing obstacles or compromising the full integrity of the door itself. It promotes good public relations, permits re-securing of the premises and enhances expense control.

The FETS® is a product designed and constructed by experienced firemen and manufacturers of commercial entrances. It exemplifies both "hands-on" and "know-how". Where unique conditions make "thru-the-door" entry impossible, it provides for entry schooling through the use of hydraulic spreaders.

CAUTION

Observation of the following safety rules are mandatory for using the FETS® unit:

1. Since the FETS® unit simulates actual forcible entry procedures, protective gear (ie. goggles, gloves) should be utilized whenever practicing with the unit.
2. The Practice Rail Sleeve should be firmly seated with mounting screw firmly in place before cylinder removal commences.
3. Check that the handle is firmly attached.
4. A properly equipped partner bracing the unit is mandatory in the use of this equipment.
5. There must be no one standing behind the door during "Magna-Force" operations.

II. DESCRIPTION

The FETS® is a scaled version of the typical or average door. It measures 18½" w x 48" h, is of all-metal construction and incorporates a full plexi-glass insert. It is hung in a frame of heavy extruded aluminum for an overall dimension of 22½" w x 51" h, mounted on a ¾" flat-plate base 2 ft. square, and pivoted to provide for use of both jambs.

Consistent with the types of locks most commonly used by stores, factories, office buildings and residences, the FETS® deluxe model is equipped with one each of a maximum security lock, a latch lock, a panic-bar device, a tempered glass deadbolt, a vertical deadbolt and "Magna-Force" fittings consisting of a pin, latch and stop. All are assembled to the door, the locks less the cylinders. The standard model is identical except that it is equipped with only the maximum security deadbolt and the latch lock.

As a companion unit, FETS® is supplied with a separate Practice Rail, which simulates the leading edge of the door and is the part to which actual force is applied during training. The Practice Rail is a 1¾" x 2" extruded aluminum section 57" high, mounted on a 1 ft. x 2 ft. x ½" thick flat-plate base from which it is demountable, and drilled to accommodate 3 lock cylinders. A steadying handle is provided already attached. When worn to the point where it is no longer serviceable, the Rail may be easily replaced upon the existing base.

III. INSTALLATION / SET-UP

The FETS® is easily movable and may be set up in any area with only enough space around it to accommodate the instructing officer and the training group. Where and when feasible, the set-up may be positioned outdoors for larger class participation. All components are mechanical and no electricity is required.

The FETS® door is shipped framed, strapped, and fully assembled with locks and door-release knob (plus "Magna-Force" fittings on the **ULTRA** model), but detached from its base. The strap is only a shipping item, but **MUST NOT BE REMOVED** until the door is completely set up. The base is pre-fitted with a center pivot-post saddle and frame-channel U-brackets, color coded left and right side for easy installation.

To mount the door on the base, lay the base on the floor, saddle up. Lift the door and frame gently (with strap in place) and set it down so that the door "seats" on the center pivot-post and the frame-channel on the two U-brackets. Fasten the frame to the base with the four screws provided. **REMOVE THE SHIPPING STRAP** at this time.

The Practice Rail is shipped with its handle attached but detached from its base. To mount the Practice Rail, set the bottom end over the post on the base, "seat" it, and fasten it to the base with the screw provided. **CAUTION:** Failure to secure the Rail to the base post with the screw could result in Rail "bounce" during practice.

Practice Rail replacement sleeves are shipped without a handle. When installing a replacement sleeve, transfer the handle from the old Rail to the replacement. Remove the screw holding the old rail to the base post and lift the Rail off the post. "Nest" the new sleeve on the base post and replace the holding screw.

IV. OPERATION

With the objective of the training session being the quickest and safest entry to the target premises without damage to the property, the instructor will first briefly outline the standard "thru-the-door" procedure and the tools required. Next, turning to the FETS[®], he will:

1. Describe the door's versatility as a training tool and point to the various locks and locking devices, explaining the style and function of each. Explain that the cylinders are deliberately left out.
2. Describe the purpose and function of the Practice Rail.
3. Display the cylinders and focus on the special groove cut across the threads behind the cylinder's face. Display the plastic Break-Away Lock-Seal[®] strip and show how it is inserted into the slot alongside the cylinder hole. Place the cylinder into the Rail and fasten it in place by engaging the groove in it with the strip. Use a wiggling motion and thrust the strip well into the Rail. Then pull up on the Break-Away Lock-Seal[®] to make sure it is locked in place.
4. Have two trainees remove the cylinder, using a standard cylinder-puller (K-tool or equivalent) and conventional operating procedure. Hold the Practice Rail firmly by its handle to avoid "bounce".
5. Move from the Practice Rail to the FETS[®] door. Select any cylinder hole (as though it was the one just vacated on the Practice Rail) and, using a pick-tool, pull or push the bolt in the lock back to release the door. Pulling or pushing the bolt back is the prime objective of this step. The pick tool, which has both a straight and bent end, must be manipulated to lift, trip or turn the bolt just as the cam or spindle on the key cylinder would. The selection as to which end of the tool to use and the manner in which it is employed is based as much on a sense of "feel" as technical knowledge. Practice is the best way to acquire this "feel".
6. Repeat Steps 4 and 5 above and allow each trainee to remove cylinders on the Practice Rail and pick the locks on the FETS[®] door.
7. Call each trainee's attention to the "feel" of the force required to "pop" the cylinder. This is important in preventing damage to the door.

8. Applicable only to **ULTRA** model doors, or doors equipped with "Magna-Force" attachment. Identify the "Magna-Force" fittings and explain their purpose. With pin in place, close the door and insert a Break-Away Magna-Seal® in the latch.

WARNING: ALL LOCKS MUST BE OPEN (BOLTS WITHDRAWN) DURING THIS DEMONSTRATION.

Stand on the outside of the door and position a hydraulic spreader tool between the door and frame.

CAUTION: ALLOW NO ONE TO STAND BEHIND THE DOOR TO AVOID BEING STRUCK BY IT SHOULD IT "POP" OPEN ABRUPTLY.

Activate the hydraulic tool to break the Break-Away Magna-Seal®, then push the door open.

When the instructor is satisfied that each trainee has practiced sufficiently and proved proficiency, he may certify or rate them according to his own scale.

V. MAINTENANCE / LOCK REPLACEMENT

The FETS® has been designed and constructed to be maintenance-free. All aluminum surfaces are protected by a durable finish which may be kept clean with the use of only a soft, slightly damp cloth. To remove stains, use a mild soap, never a detergent.

Lock mechanisms should be lubricated periodically, depending upon use and storage environment, with a quality silicon spray. Insert the spray can's nozzle-tube into each cylinder hole and squeeze one burst in each direction. Spray once directly from the can into each extended bolt and latch, as well as the panic-bar joints, to prevent sticking or corrosion.

Avoid standing or storing the FETS® bases on wet ground or floors.

To replace either the latch lock or the maximum security lock entirely, first remove the set-screw which holds the knob cylinder in place and the two faceplate screws, all located where the latch or bolt emerges from the door edge. Unscrew and remove the knob cylinder. The lock mechanism may then be removed from the door.

To replace the vertical deadbolt lock entirely, unscrew the 4 screws on the face of the lock and remove it.

The panic-bar device may be removed entirely for replacement by removing the three 1/8" hex-head set-screws in each of the two housings. Two are located on the top sides and the third on the bottom of each housing. Next unscrew the flat-head holding screw from beneath each housing and lift the entire panic-bar assembly off the hanger posts.

To replace the tempered glass deadbolt lock, the door must be removed from the frame. Loosen the door release knob and lift the door up and out. Next, remove the knob cylinder screw and the holding screw located on the edge of the door alongside the knob cylinder. The lock mechanism can now be removed.

Keep the "Magna-Force" fitting pin withdrawn when not in use to prevent bending or distortion.

VI. PARTS IDENTIFICATION

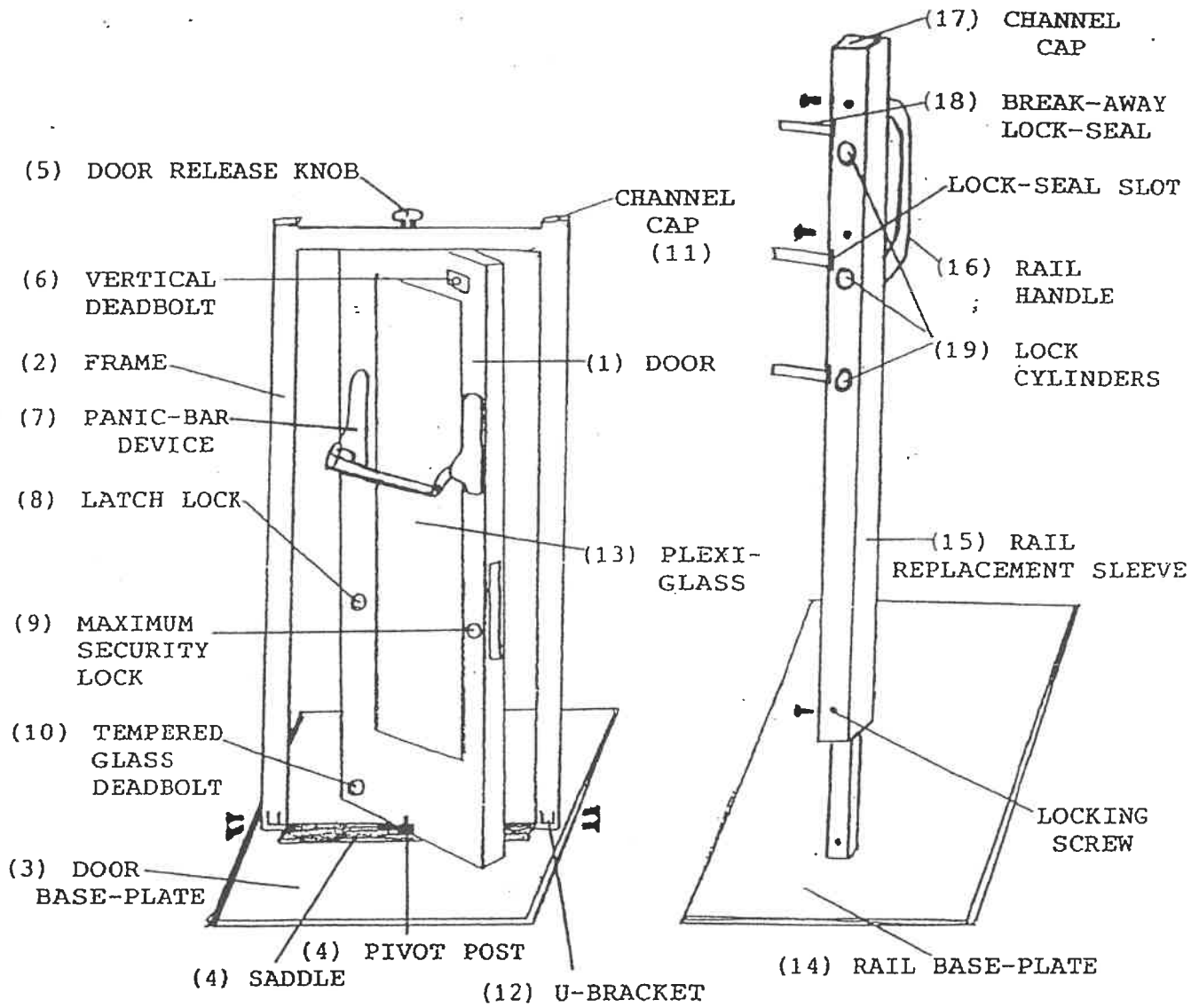
Replacement parts for the FETS® are available from the manufacturer and should be ordered by part number and with reference to the diagram.

The only tools required are a medium blade screwdriver, one each of a medium (#3) and large Phillips screwdriver and a 1/8" Allen Hex Wrench.

<u>FIGURE #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	2001	Door, only. Drilled
2	2002	Frame
3	2003	Door base-plate
4	2004	Saddle & PP, drilled
5	2005	Door release knob
6	2006	Vertical deadbolt lock *
7	2007	Panic-bar device *
8	2008	Latch lock *
9	2009	Maximum security lock *
10	2010	Tempered glass deadbolt lock *
11	2011	Door frame channel cap (2)
12	2012	U-bracket (2)
13	2013	Plexi-glass
14	2014	Rail base-plate
15	2015	Practice Rail replacement sleeve, Drilled
16	2016	Rail handle
17	2017	Rail channel cap
18	2018	Break-Away Lock-Seal®(50)
19	2019	Lock cylinders (3)
20	2020	Package, frame/rail screws
21	2021	"Magna-Force" fitting pin
22	2022	"Magna-Force" fitting latch
23	2023	"Magna-Force" fitting stop
24	2024	"Magna-Force" base plate
25	2025	"Magna-Force" door plate
26	2026	Break-Away Magna-Seal®(50)

* All replacement locks are complete with mounting hardware

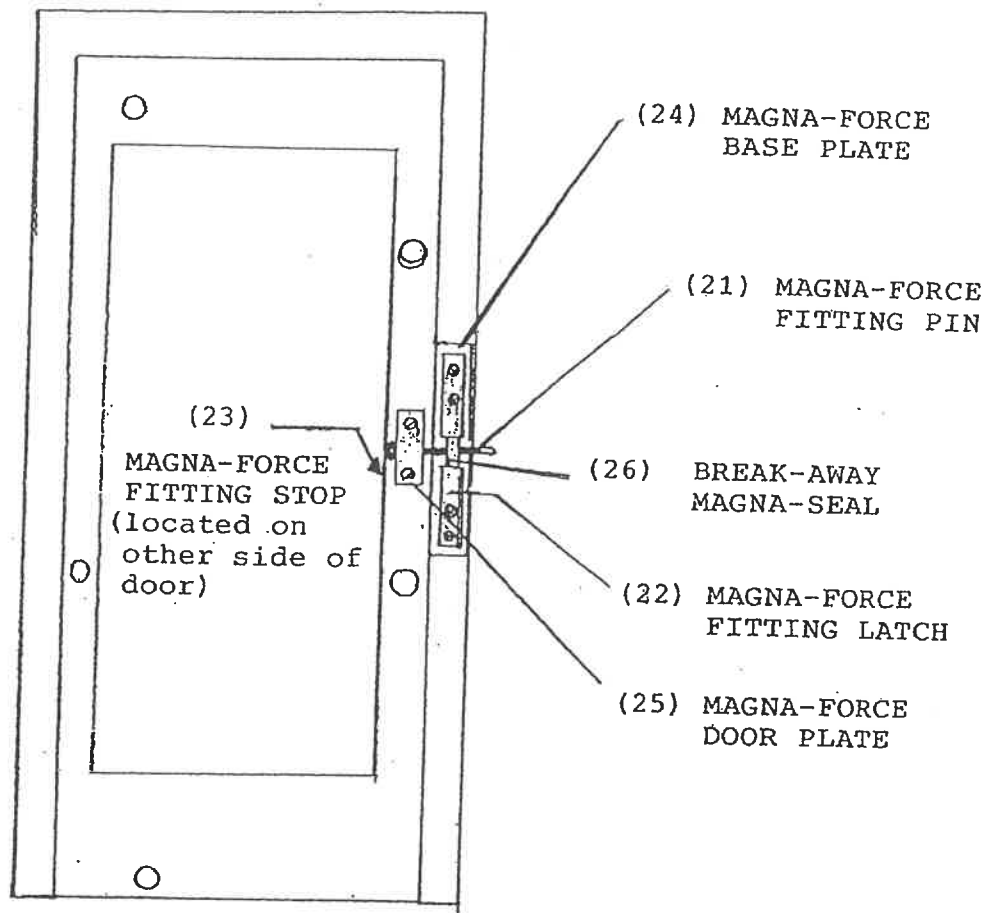
DIAGRAM



DELUXE DOOR

PRACTICE RAIL

DIAGRAM



ULTRA DOOR
(Deluxe door with "Magna-Force" attachment)

SEE PAGE 9 FOR DETAILED DIAGRAM

ONE YEAR LIMITED WARRANTY

This product is warranted against defects in material and workmanship for one year from date of original purchase. S & J will repair or replace any defective unit without charge for either parts or labor.

This warranty does not cover damage or wear resulting from accident, misuse, abuse, or lack of reasonable care. Consumable items such as the FETS® lock cylinders, Break-Away Lock-Seals®, and the Practice Rail replacement sleeve, are not covered. Units in need of repair should be returned, shipping prepaid, to S & J.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusion and limitations may not apply to you.

Considerable effort has been made to ensure that this product conforms to our highest quality standards. However, should you experience any difficulties, please contact your sales representative.

Thank You

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