



OWNER'S / OPERATORS MANUAL

W-TOOL



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Overview

General:

The W Tool is intended for use by public safety professionals for the functions as outlined in this manual. Never exceed the tools rated capacity of 6,000 pounds. It is the responsibility of the owner to insure that all personnel are properly trained on this tool prior to its use. Retain this manual for future reference. Keep all labels and warning stickers on the hydraulic power head and the tool clean and readable. The W Tool should be visually inspected before and after each use for cracks, excessive wear, fluid leaks, damage and or missing parts.

Description:

The “W Tool” is a manually operated hydraulic rescue tool designed for multiple types of public safety operations. The design incorporates three (3) basic components:

- A manually operated 6,000 pound hydraulic power head attached to a telescopic main body constructed of an outer 2”x2” square steel tube with 3/16 wall thickness,.
- An inner 1.5”x1.5” square steel tube with 3/16 wall thickness 27” long designed to adjust in length telescopically to 39”. (Ws is 19” long and adjust telescopically to 23”)
- Two base plates constructed of ½” plate steel 3”x 5” with one base plate designed to receive different heads allowing the tool to perform multiple rescue tasks.

An integrated LED light is located on the hydraulic power head to aid in night operations. The tool is also comes equipped with an adjustable shoulder carry strap. The W Tool is designed for use in additional rescue applications when used in conjunction with the approved accessories (4x4 Stabilization Kit & V Block Rescue Kit). The application and use of these accessories is covered in their respective operators manual.

Section 1.0

Critical Points and Safety Instructions

Warning!

Improper Use of This Tool Can Result in Injury or Death

Please read and fully understand this manual before using this tool. Proper Protective Equipment and OSHA approved eye protection should be worn at all times when using this tool.

- ***NEVER*** pick the W-Tool up by the hydraulic power head ***Handle*** unless it is completely in the stored/nested position. Failure to do so could result in damage to the control plunger on the hydraulic power head.
- When using as a ***Battering Ram*** the ***W-Tool must always be in the stored/nested position as shown in Section 3.2.*** Failure to do this could result in damage to the W Tool or injury to the operator.
- When using the W-Tool for any operation it is critical that the ***detent pin be fully inserted as shown in Section 2.1.*** Failure to do so may result in Injury or damage to the W-Tool.
- ***The Screw Head should remain in the fully closed/tightened position at all times.*** The Screw Head may be turned slightly to obtain correct positioning of the top plate during tool placement. Maximum operational strength is only obtained with the Screw Head left in the fully closed or tightened (clockwise) position inside the hydraulic piston.
- When the W Tool is used with approved accessories (4 x 4 Stabilization or the “V” Block Rescue attachments) the Screw head adjustment must remain in the fully seated or tightened position. ***NEVER*** deploy the screw head adjustment when using the W Tool with any of the approved attachments.

Section 2.0 Adjusting The Tool

2.1 Detent Pin Operation

When using the W Tool for any operation it is critical the Detent Pin be fully inserted as shown in the figure below. Failure to do so may result in injury or damage to the W Tool.



2.2 Slide Tube Adjustment

The slide tube is adjusted by the removal/insertion of the detent pin. The slide tube should be adjusted to the closest width of the door or window jamb it is being used in. This adjustment should be performed with the Hydraulic Cylinder of the Power Head Completely Retracted or Seated. Voids or spaces greater than 2 inches should be addressed by repositioning the slide tube



2.3 Engage/ Release Thumb Lever

The W Tool controls the Hydraulic Power Head by the Engagement/Release thumb lever located on the top of the tool. The Hydraulic Power Head is engaged by turning the lever to the right (clockwise) until it stops. This should be performed with Light Thumb Pressure Only and the lever should never be forced. The W Tool releases the hydraulic pressure to the Power Head by turning the Engagement /Release lever to the left (counter clockwise) NEVER strike the Engagement/Release level with a tool or other device to engage or release the Power Head.

Rapid Release of the W Tool is best obtained by leaving the power head handle in the raised position and turning the thumb lever several turns to the left (counter clockwise)

2.4 Screw Head Adjustment

The Screw Head should remain in the fully closed/tightened position at all times. The Screw Head may be turned slightly to obtain correct positioning of the top plate during tool placement. Maximum operational strength is only obtained with the Screw Head left in the fully closed or tightened (clockwise) position inside the hydraulic piston.

Section 3.0 Operating the Tool

3.1 - Door and Window Forcible Entry

A – Pre Adjusting the Tool

The W Tool should be *Pre-Adjusted* to the rough opening of the door / window being breached before placing the tool in the jamb. This is best performed by sitting the W Tool on the ground in front of the door or window and adjusting the slide tube (with the use of the detent pin) to the closest width of the jamb. This should always be performed with the Hydraulic Cylinder of the Power Head in the fully closed and retracted position.

B – Tool Placement in the Door/Window

The W-Tool should be placed in all door and window openings in a *Level and Horizontal Position* as shown below. The tool should be positioned with the Power Head on the right hand side of the operator with the handle on top facing the operator. The W Tool should be positioned just above the strongest lock (Deadbolt) that is being breached. Angled placement or failure to have the *Base Plates Flatly Seated at 90 Degree Angles Against the Jambs* may decrease the operational functionality of the tool. Angled placement may also lead to unnecessary damage of the door/window jambs and /or the W tool.



C – Hydraulic Engagement and Release

The W Tool controls the Hydraulic Power Head by the Engagement/Release thumb lever located on the top of the tool. The Hydraulic Power Head is engaged by turning the lever to the right (clockwise) until it stops. This should be performed with Light Thumb Pressure Only and the lever should never be forced. The W Tool releases the hydraulic pressure to the Power Head by turning the Engagement /Release lever to the left (counter clockwise) NEVER strike the Engagement/Release level with a tool or other device to engage or release the Power Head.

D – Hydraulic Release and Removal

Release the hydraulic pressure to the Power Head by turning the Engagement /Release thumb lever to the left (counter clockwise) while supporting the tool from the bottom with your free hand. Slightly rock the tool in a side-to-side motion to clear the tool from the jamb. NEVER strike the Engagement/Release lever or the W Tool itself with another device to release or free the Power Head.

3.2 – Battering Ram Operation

Public safety personnel can also use the W tool as a Battering Ram. **For this application, the tool must be in the fully bedded position: pinned, jack plate fully collapsed, and the handle nested in its posted slot as shown below.** The RAM END is used as the impact point of the tool with the door or object to receive the impact. The W Tool can be shouldered using the carrying strap with the RAM END of the tool facing forward and toward the door or object of impact. One hand being placed on the handle and the other hand placed on the hydraulic power head plate the W Tool is swung back and impacted against the door in close proximity to the strongest lock. **Caution should be used to assure hands and other body parts are not in contact with impact areas of the door or tool.**



3.3 – Smoke Ejector Hanger

The W Tool enables firefighters to hang smoke ejectors in various window or door openings to assist in ventilation operations. The tool is placed horizontally and level in a desired opening. Hydraulic pressure is applied in small increments until the tool is firmly secured. A smoke ejector is then suspended from the W Tool and used as needed to support suppression and rescue operations.

Warning: Never place items or allow personnel to travel under smoke ejectors that have been secured to the W Tool

Section 4.0 **Cleaning and Storage**

4.1 – Cleaning Requirements

The W Tool should be cleaned and inspected after every use with a clean soft cloth. If the W Tool has been exposed to extreme dirt or other elements rinse the tool with a mild cleaning solution of soap and water and dry with a soft cloth.

4.2 – Transportation and Storage

The W Tool should always be stored and transported in a secure manner. The tool should always be stored in the fully closed position with the slide tube in the nested and pinned position with the detent pin fully inserted. The W Tool power head should also be in the fully retracted position with the hydraulic cylinder fully depressed inside the power head. The engage/release lever should be in the closed or engaged position.

Carry Bags & Vehicle Mounting Brackets are available for the W-TOOL.

Section 5.0 Maintenance Requirements

5.1 – “Back Flushing” the Power Head

Back Flush the Power Head on a “Monthly” basis. This is performed by extending the Hydraulic Power Head piston fully, then releasing the Engagement/Release lever and manually pushing the piston back to its’ fully seated or closed position.

5.2 – Checking the Hydraulic Fluid Level & Fluid Specifications

The hydraulic fluid in the jack should be checked whenever the performance or hydraulic travel distance of the power head has been compromised. Check the fluid by standing the W Tool in a vertical position with the power head on top and the rubber plug on the side of the power head is facing the user. Gently remove the rubber plug and inspect the fluid level by tilting the tool in the direction of the oil port until fluid runs out. Fluid should be at or near the top of the oil port and run out of the port with only a slight tilting of the tool. If fluid is low add approved hydraulic through the oil port until it runs out with the tool in a level vertical position. Replace the rubber plug and wipe any excessive fluid from the tool.

IMPORTANT: In order to prevent seal damage and premature hydraulic power head failure, never use alcohol, hydraulic brake fluid, or transmission oil in the hydraulic power head. **Use Chevron Hydraulic Oil AW ISO 32 or its equivalent Unax AW 150.**

5.3 – Lubrication Requirements

Detent Pin – Keep the detent pin greased with a light coat of white lithium grease to insure smooth insertion and removal.

Screw Head – Keep the screw head treads lubricated with a light coat of WD-40 or equivalent spray lubricant

Linkage – Keep the power head linkage coated with a light coat of WD-40 or equivalent spray lubricant.

5.4 - Technical Support / Warranty / Repair Service

Contact WTC or your WTC Authorized Dealer for all service and maintenance related questions.

Weddle Tool Company Inc.
877-79W-TOOL (877-799-8665)
www.weddletoolco.com

W-TOOL Security/Warranty Registration Procedures

- All W Tools that are purchased directly from WTC or one of its Authorized Dealers **MUST BE REGISTERED** to insure the required Security Tracking & Warranty procedures are in place.

**Please complete the attached Security/Warranty Registration Form.
Completed registrations must be returned to:**

**Weddle Tool Company Inc.
1419 Sam Mason Road
Bunker Hill WV 25413
Fax (304) 229-2360
sales@weddletoolco.com**

Failure To Complete Required Security/Warranty Registration may **Void**
The W TOOL Warranty and may restrict the Sale of Additional WTC
Products to Authorized Dealers Who Are Not In Compliance.

Weddle Tool Company, Inc.

W-TOOL Warranty Certificate

The Weddle Tool Company, Inc. (WTC) hereby warrants to the original purchaser only that each new W-TOOL to be free of structural defects as to both material and workmanship. WTC further warrants that it will maintain such structural integrity and remain free of structural defects for a period of one **(1) Year** from the date of purchase as designated on the manufacturer's certification. This warranty is subject to the provisions, limitations, and conditions set forth herein.

Exclusions from this warranty include the paint, decals and all additional accessory and attachments.

This warranty is conditioned upon normal use and reasonable maintenance of the W-TOOL and prompt written notice of all defects to WTC. The said defect shall not result from abuse, misuse, negligence, accident, improperly lifting, improperly overloading beyond applicable weight rating. If any such conditions are not complied with, this warranty shall become void and unenforceable.

If repairs should become necessary under the terms of this warranty, the extent of that repair shall be determined solely by and shall be performed solely by the WTC. The expense of shipping to or from such repair facility shall be that of the purchaser and is not an item covered by this warranty.

The WTC, reserves the unrestricted right at any time and from time to time to make changes in the design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products previously delivered to the buyer.

Exclusions and Limitations: This manufacturer's warranty is provided in place of any and all representations expressed or implied warranties and no person is authorized to make any representation or warranty on behalf of WTC or any of its distributors other than as set forth in this manufacturer's warranty. Your right to service and replacement of parts on the terms expressly set forth herein are your exclusive remedies and neither the manufacturer nor any of its distributors shall be liable for damages, whether ordinary, incidental or consequential.

NOTE: Removal Of the Warning Label From the Power Head Voids the Warranty.

W-TOOL
Security/Warranty Registration Form

Agency Name _____

Address _____

County _____

City _____ State _____ Zip _____

Phone _____

Email _____

Tool Serial Number _____

Date of Purchase _____

Purchased From _____

Complete Form and Return By:

Mail: Weddle Tool Company, Inc.

1419 Sam Mason Road
Bunker Hill, WV 25413

Fax: (304) 229-2360

Email: sales@weddletoolco.com