



**DURAN
WHEATON
KIMBLE**
Excellence in your hands

WHEATON® E-Z Crimper™

Hand Operated Crimper, 8 - 20mm

Instruction Manual



Catalog Numbers: W225300 – W225303

WARRANTY

DWK Life Sciences warrants this product to be free from defects in material and workmanship for a period of two (2) years from the date of shipment. If repair or adjustment is necessary within the warranty period and has not been the result of mishandling or abuse, you may return the unit freight prepaid, provided that return authorization has been obtained. DWK Life Sciences will correct the defect or adjust the unit at no charge.

Items returned for repair or adjustment should be packed very carefully to prevent damage in transit and also should be insured for your protection. Should damage occur in transit, all claims should be made against the carrier. The shipping carton should not be discarded but retained until inspection by a representative of the carrier is made.

DWK Life Sciences will repair or adjust out-of-warranty products at a nominal charge.

GENERAL SAFETY INSTRUCTIONS

NOTE: EVEN THE SAFEST EQUIPMENT CAN CAUSE INJURY IF THE USER IS CARELESS

1. **KNOW YOUR INSTRUMENT** - Read the operating manual carefully. Learn the equipment's application and limitations as well as the specific potential hazards peculiar to this instrument.
2. **GROUND ALL EQUIPMENT** - If electrical, this instrument is equipped with an approved 3-conductor cord and a 3-prong grounding type plug to fit the proper grounding type receptacle. The green conductor in the cord is the grounding wire, and should never be connected to a live terminal.
3. **AVOID DANGEROUS ENVIRONMENT** - Electrical instruments designed to process liquids must be operated with extreme caution. If liquid comes in contact with internal components or wires, fire or electric shock may occur. Adequate surrounding workspace should be provided during use. Do not operate electrical instrumentation in a combustible atmosphere.
4. **WORK SURFACE** - Keep area well lighted. Be certain the work surface is clean, level, and sturdy enough to support the weight of the unit, particularly if it is to be filled with liquid.
5. **WEAR PROPER APPAREL** - Do not wear loose clothing, neckties, or jewelry that might get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
6. **WEAR SAFETY GOGGLES** - Wear safety goggles at all times. Everyday eyeglasses only have impact resistant lenses; they are NOT safety glasses.
7. **DON'T OVERREACH** - Keep proper footing and balance at all times. Do not place instrument in an area or position that would hinder access to or proper operation of the instrument.
8. **MAINTAIN INSTRUMENT WITH CARE** - Keep screws tight and unit clean. Check periodically for worn or damaged parts. Inspect the plug and cord before each use. Do not operate this instrument if there are signs of damage.
9. **AVOID ACCIDENTAL STARTUP** - If electrical, always make sure switch is in the "OFF" position before plugging the instrument into outlet.
10. **DISCONNECT INSTRUMENT** - Always disconnect the instrument from the power source before servicing.
11. **DO NOT BLOCK COOLING VENTS IF PROVIDED.**
12. **DO NOT OPERATE THIS EQUIPMENT IN ANY MANNER NOT SPECIFIED IN THIS MANUAL.**
13. **KEEP THE OPERATING MANUAL** - Keep the operating manual for this instrument in a safe place near the instrument for quick and easy reference.
14. **FIRE EXTINGUISHER** - It is recommended that a fire extinguisher always be located in areas where electrical instruments are being used.

WSP-305

SAFETY SYMBOLS USED IN THIS MANUAL



WARNING! READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below may result in electrical shock, fire and / or serious personal injury.



An **ELECTRICAL DANGER** symbol indicates attention to an operation which could cause electrocution or severe injury.

INTRODUCTION

The WHEATON® E-Z Crimper™ is a precision manufactured tool designed for crimping one-piece lined or unlined aluminum seals on serum bottles and vials. A variety of sizes are available to accommodate a wide range of aluminum closures. The E-Z Crimper™ is designed for easy use, and features an adjustable stop which, allows the user to crimp each vial to the same degree of tightness. The new cast aluminum housing provides a lightweight, ergonomic design and offers unmatched reliability. The 11mm E-Z Crimper™ may be fitted with an optional plunger insert which will provide a double aggressive liner seal when used with lined open top seals. See "OPTIONAL 11mm E-Z CRIMPER™ OPERATION" section for further details on this feature.

OPERATION (REFER TO FIG. A)



WARNING! PERSONAL INJURY MAY RESULT IF THE E-Z CRIMPER™ IS USED CARELESSLY. KEEP HANDS AND FINGERS AWAY FROM THE E-Z CRIMPER™ JAWS WHEN OPERATING THE E-Z CRIMPER™.



WARNING! NEVER ATTEMPT TO UTILIZE THE E-Z CRIMPER™ AS A DECAPPING TOOL. PLACING EXCESSIVE PRESSURE ON A GLASS VIAL MAY CAUSE IT TO SHATTER, LEADING TO SERIOUS INJURY. NEVER TWIST OR TURN A GLASS VIAL WHEN CRIMPING.

IMPORTANT! IT IS POSSIBLE TO DAMAGE THE E-Z CRIMPER™ IF EXCESSIVE FORCE IS APPLIED DURING THE CRIMPING PROCESS. NEVER ATTEMPT TO SQUEEZE THE HANDLES BEYOND THE STOP POINT OF THE ADJUSTING SCREW, AS THIS MAY SERIOUSLY DAMAGE THE E-Z CRIMPER™ HOUSING. PRIOR TO OPERATION, THE E-Z CRIMPER™ MUST BE ADJUSTED TO ACHIEVE THE OPTIMUM DEGREE OF SEAL TIGHTNESS. THIS IS DUE TO THE DIFFERENCES BETWEEN VARIOUS COMBINATIONS OF SEALS AND SEPTUM. PLACING EXCESSIVE FORCE ON THE E-Z CRIMPER™ HANDLES WILL NOT CREATE A TIGHTER SEAL.

1. Place an aluminum seal with appropriate septum or stopper (if using unlined seals) over the neck of the vial. If using a stopper under the seal, be certain it is fully inserted into the vial opening.
2. Holding the E-Z Crimper™ 90 degrees to the vial, fully insert the vial into the open E-Z Crimper™ jaws (11).
3. Smoothly squeeze the E-Z Crimper™ handle (18) as far as it will go. Release the handle and remove the vial for inspection.
4. If the seal appears to be loose, and can be turned easily by hand, it will be necessary to adjust the E-Z Crimper™ for a tighter seal. Using the included 3/8" wrench, loosen the adjusting screw lock nut (3). Turn the adjusting screw (2) counterclockwise; tighten the adjusting screw lock nut. Repeat steps 1 through 3, and readjust as necessary until a satisfactory crimp is obtained.
5. If the sides of the seal are dented or wrinkled, it will be necessary to adjust the E-Z Crimper™ for a looser seal. Repeat the adjustment procedure in Step 4, turning the adjustment screw clockwise instead of counterclockwise.

NOTE! A PROPERLY CRIMPED SEAL CAN NORMALLY BE TURNED SLIGHTLY IF TWISTED BY HAND.



THE E-Z CRIMPER™ MAY BE AUTOCLAVED TO 121°C. AUTOCLAVING MAY CHANGE THE APPEARANCE AND OR REDUCE PRODUCT LIFE. THE CRIMPER JAWS SHOULD BE CLEANED AND LUBRICATED APPROX. EVERY 5,000 CRIMPING OPERATIONS OR SOONER IF THE E-Z CRIMPER™ IS UNDER CONSTANT HEAVY USE OR WHEN USED IN CORROSIVE ATMOSPHERES. ANY INDUSTRIAL SPRAY LUBRICANT OR SIMILAR SPRAY LUBRICANT MAY BE USED.

OPTIONAL 11 MM E-Z CRIMPER™ OPERATION

INTRODUCTION TO OPTIONAL OPERATION

The 11-mm cast aluminum E-Z Crimper™ is packaged with five small **optional plunger inserts** which, when inserted into the plunger, will alter the sealing characteristics of the E-Z Crimper™. This feature provides a **double aggressive liner seal** on lined open top seals, which effectively eliminates the small gap normally found between the liner top and seal opening. This technique is accomplished by depressing the internal rim of the seal opening against the liner in a smooth concave fashion. The primary advantage of this crimping technique is to minimize liner movement during cannula intubation, greatly reducing the possibility of liner/seal separation and possible loss of vapor pressure.

INSTALLATION (REFER TO FIG. B)

1. Close E-Z Crimper™ handles
2. Locate bag containing 5 small optional plunger inserts.
3. Place a plunger insert on the tip of a ballpoint pen, flanged side down (flange toward pen).
4. Using the pen, carefully push the plunger insert into the hex shaped opening in the end of the plunger as far as it will go. Ascertain that the plunger insert is seated flush against the plunger.

OPERATION



IMPORTANT! THIS PROCEDURE IS INTENDED FOR USE ONLY WITH 11MM OPEN TOP LINED SEALS, SUCH AS CATALOG #'S 224211-et. al., 224219 –et. al., 224231-et. al., 224235-et. al.

1. Place a lined open top aluminum seal (as referenced above) over the neck of the vial.
2. Proceed with steps 2 through 5 as outlined on page 5, being certain to follow all operational notes and warnings as described.

HAND OPERATED E-Z CRIMPER™ 8 – 20mm CAST ALUMINUM MODELS**PARTS LIST (FIG. A)**

ITEM NO.	DESCRIPTION	CAT. NO	USE QTY.
1	SCREW CAP	50028736	1
2	SCREW SET 10-32 X 1 ¾", SS SOCKET	50084820	1
3	NUT, HEX, 10-32, SS	I052340	1
4	LOWER GRIP	50083137	1
5	DIE CAST HOUSING	I050012	1
6	HOOK	I050069	1
7	WASHER C' BORED	50028774	1
8	SCREW, 10-32 X ½" SHCS	50028775	1
9	WAYNER SPRING MODIFIED (8mm ONLY)	WL054414	1
9	WAYNER SPRING	I054038	1
10	8 MM TAPERED JAW (1 SET OF 4) W/JAW SEAT	WL054415	1
10	11 MM TAPERED JAW (1 SET OF 4) W/JAW SEAT	I050228	1
10	13 MM TAPERED JAW (1 SET OF 4) W/JAW SEAT	I052596	1
10	20 MM JAW (1 SET OF 4) W/JAW SEAT	I054416	1
11	COMPRESSION PLUNGER (8 MM)	50027803	1
11	COMPRESSION PLUNGER (11 MM)	I050227	1
11	COMPRESSION PLUNGER (13 MM)	I052595	1
11	COMPRESSION PLUNGER (20 MM)	I050224	1
12	SLOTTED BARREL	50028734	1
13	COMPRESSION SPRING	50028781	1
14	PLUNGER ROD ½"	50028735	1
15	PIVOT PIN	50028814	2
16	UPPER HANDLE	50028741	1
17	UPPER GRIP	50083136	1
18	E-RING, SMALL	I054513	2
19	3/8" WRENCH	50028783	1

6

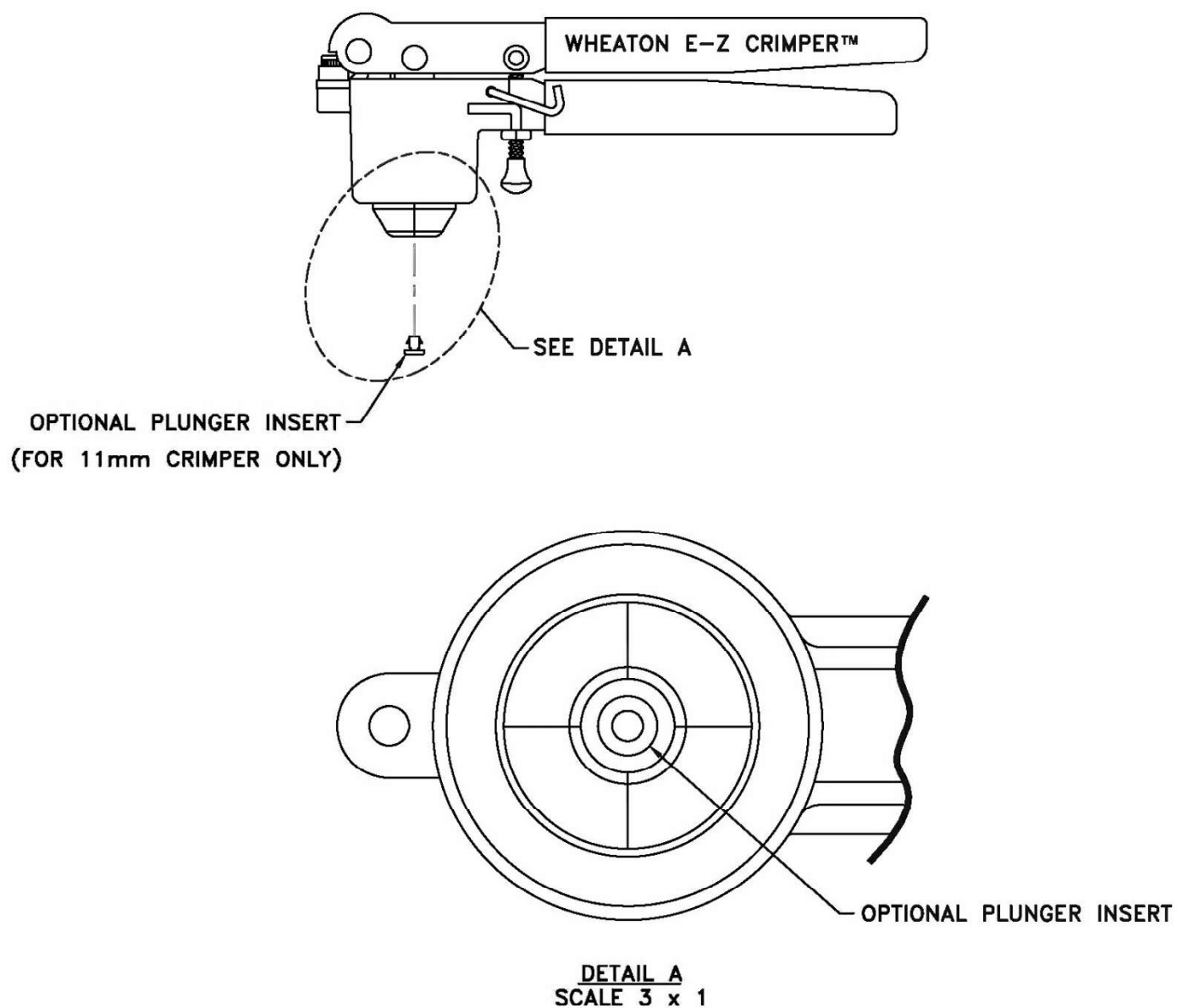


FIG. B

