



PowerCrimper & Accessories



Set up and Operation Manual



KEBBY INDUSTRIES INC.

4075 Kilburn Ave., Rockford, IL 61101 U.S.A.

Phone: 815-963-1466 • Fax: 815-962-3490

www.kebhvindustries.com

CHROMALYTIC +61(0)3 9762 2034 **12/13**
ECH nology Pty Ltd
 Website NEW : www.chromalytic.com.au E-mail : info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA

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INTRODUCTION AND SAFETY

I.0 INTRODUCTION

This manual has been prepared to aid you in the operation of your KEBBY POWER CRIMP.

The Kebby "Power Crimp" is a pneumatically controlled crimping tool. It has been designed to increase the speed, ease, pressure and repeatability of crimping for most size bottles and caps.

Kebby Industries is very well-known for the high quality of all their crimping and de-capping tools. The Power Crimp is no different. The quality of the Power Crimp is easily seen in the top grade fittings, high quality regulator assembly, stainless steel hose, and the corrosion-resistant finish. The variety of accessories will enhance the ease and function of the Power Crimp.

This unit has been designed for ease in set-up and operation. The Power Heads are easily removed from the Power Crimp so that size changes can be accomplished quickly. The Kebby "Power Crimp" and Power Heads ~~in the Power Crimp~~ will provide a smooth, fast and accurate crimp. The quickness and quality of the crimp makes the Power Crimp very cost effective.

Kebby Industries Inc. feels that once you have used the Kebby "Power Crimp" and accessories, you will not want to go back to hand crimping.

I.1 PROPRIETARY AGREEMENT

This manual discloses information in which Kebby Industries Inc. has proprietary rights. Neither receipt nor possession of this manual confers or transfers any right to the client, and by its retention hereof, the client acknowledges that it will not reproduce or cause to be reproduced, in whole or in part, any such information except by written permission from Kebby Industries Inc. The client shall have the right to use and disclose to its employees the information contained herein for the purpose of operating and maintaining the Kebby "Power Crimp", and for no other purpose.



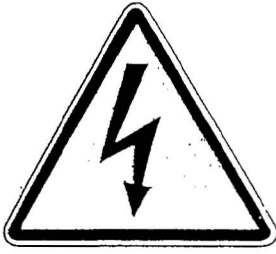
The information contained in this manual is believed to be accurate. In spite of continuous review, there is always a possibility of error, misapplication of content, or individual misunderstanding.

Kebby Industries Inc. assumes no liability for unsatisfactory safety or machine performance that might result from such error, misapplication or misunderstanding.

I.2 SAFETY PRECAUTIONS

This precision tool and accessories have been designed to ensure the maximum safety for the operator. Only qualified technicians should work on this equipment. Alignment, operation, and maintenance of this unit with all its attached power operated devices are potentially hazardous if safety precautions are not followed.

Throughout this manual you will be reminded of safety factors:


<p>WARNING</p> 	<p>THIS WARNING SIGN IS A REMINDER THAT THERE IS DANGER TO PERSONNEL. BE VERY CAREFUL!</p>
<p>CAUTION</p> 	<p>THIS CAUTION SIGN DENOTES: CARE MUST BE TAKEN OR EQUIPMENT MAY BE DAMAGED.</p>
<p>CAUTION</p>  <p>STORED ENERGY</p>	<p>THIS SIGN IS USED WHEN DANGEROUS STORED ENERGY MAY BE PRESENT. THIS WILL REQUIRE ADDED CAUTION AND A WELL THOUGHT OUT PLAN BEFORE REPAIR BEGINS. BE PREPARED TO CHECK OR HAVE CHECKED ANY PRESSURIZED LINES.</p>


I.3 SAFETY RECOMMENDATIONS

For your safety and to prevent equipment damage, thoroughly study this manual and follow these recommendations:

1. Keep the tool and accessories properly maintained. Perform all maintenance in accordance with the manual provided.
2. Understand how the unit operates. Study the operation manual prior to the general start-up sequence. If you have any questions, see the proper authority.
3. Never allow untrained personnel to operate the unit or conduct tests.
4. Never operate the unit unless proper maintenance routines have been regularly performed and the unit is known to be in good working order.
5. Ensure that all guarding, interlocks and safety equipment are in good condition and in place during the operation of the unit.
6. Be certain tools are properly mounted and locked, and the workpiece is securely positioned before starting the unit.
7. Never operate any unit beyond its rated speed or capacity.
8. Never reach across or under any moving machine part.
9. Do not wear loose clothing or jewelry that could become entangled in the moving parts of the unit.
10. Never lay tools or tooling on the unit where it might interfere with the operation of the unit.
11. Always wear properly designed impact resistant safety glasses and safety shoes.
12. Be alert for loose, worn or broken parts. When suspected, do not operate the unit. Report these items and any unusual noise or action of the unit to the proper authority.
13. Never overload the unit. This is potentially dangerous to both the operator and the unit.
14. When returning to the unit after an absence, always check the setup. The equipment may have been used and not replaced correctly.
15. Never operate unit while any personnel are near hazardous areas.

I.4 CAUTIONS AND WARNINGS

<p>WARNING</p> 	<p>THIS WARNING SIGN IS A REMINDER THAT THERE IS DANGER TO PERSONNEL. BE VERY CAREFUL!</p>
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<p>CAUTION</p> 	<p>CARE MUST BE TAKEN OR EQUIPMENT MAY BE DAMAGED.</p>
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- Inlet pressure should never exceed 250 psi.
- Operator is recommended to disconnect air prior to changing Power Heads, Power Crimp, or cleaning.
- Do not place fingers, hands, or anything in pinch areas.
- All hoses must be kept away from sources of heat that may cause them to melt.
- Hoses must not be a trip hazard.
- Warning labels must be left on the machine.

I.5 CUSTOMER COMMENTS

Comments concerning the information contained within this manual are welcome.

Please contact:

Kebby Industries, Inc.

4075 Kilburn Avenue
Rockford, Illinois 61101
The United States of America

Phone (815) 963-1466
FAX (815) 962-3490

I.6 OCCUPATIONAL SAFETY AND HEALTH ACT

This unit complies with the Occupational Safety and Health Act of 1970 standards where the requirements are specific. The balance of the standards are complied with as interpreted by Kebby Industries, Inc. Since these standards are continually evolving, and since they are subject to considerable interpretation by a third party, Kebby Industries, Inc. cannot guarantee or warrant compliance with the provisions or standards of O.S.H.A. or any regulations issued under that statute.

CHAPTER 1

ASSEMBLY INSTRUCTIONS

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1.0 INTRODUCTION

This manual has been prepared to aid you in the set-up and operation of your KEBBY POWER CRIMP. The following chapter will guide you through the assembly.

1.1 ACCESSORY LIST

The following accessories are available with the Kebby POWER CRIMP. These accessories will further enhance the performance and convenience of the Power Crimp.

- Foot Pedal Assembly - P/N A10011
- Brass Gauge/Regulator Assembly - P/N A10002
- Stainless Steel Gauge/Regulator Assembly - P/N A10003
- Power Crimp Stand Assembly - P/N A10010
- Air Pressure Verification Assembly - P/N A10013
- Supply Air Hose Assembly - P/N A10005
- Braided Stainless Steel Hose Assembly - P/N A10009
- Polyurethane Straight Hose Assembly - P/N A10008
- Polyurethane Self-storing Hose Assembly - P/N A10007
- Pro-Seal (refer to Figure 4-9)

1.2 KEBBY POWER CRIMP AND ACCESSORIES

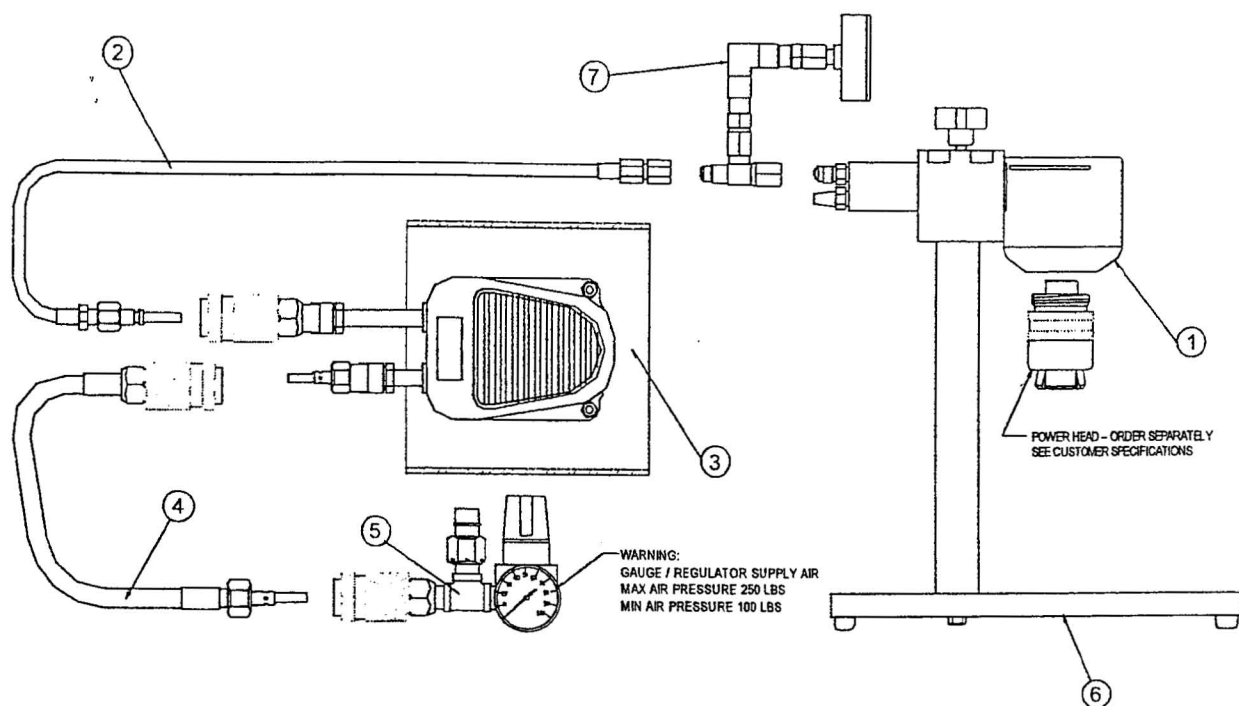


FIGURE 1-1 KEBBY POWER CRIMP AND ACCESSORIES

NUMBER	QTY	DWG. NO.	PART NUMBER	DESCRIPTION
1	1	A-19001-1	A10001	POWER CRIMP
2	1	A-19005-1	SEE DWG.	POWER CRIMP HOSE ASSEMBLY
3	1	A-19007-1	A10011	FOOT PEDAL ASSEMBLY
4	1	A-19004-1	A10005	SUPPLY AIR HOSE ASSEMBLY
5	1	A-19002-1	SEE DWG.	GAUGE/REGULATOR ASSEMBLY
6	1	A-19006-1	A10010	POWER CRIMP STAND ASSEMBLY
7	1	A-19003-1	A10013	AIR PRESSURE VERIFICATION ASSEMBLY

TABLE A

1.3 ASSEMBLY INSTRUCTIONS

1.3.1 BASIC ASSEMBLY

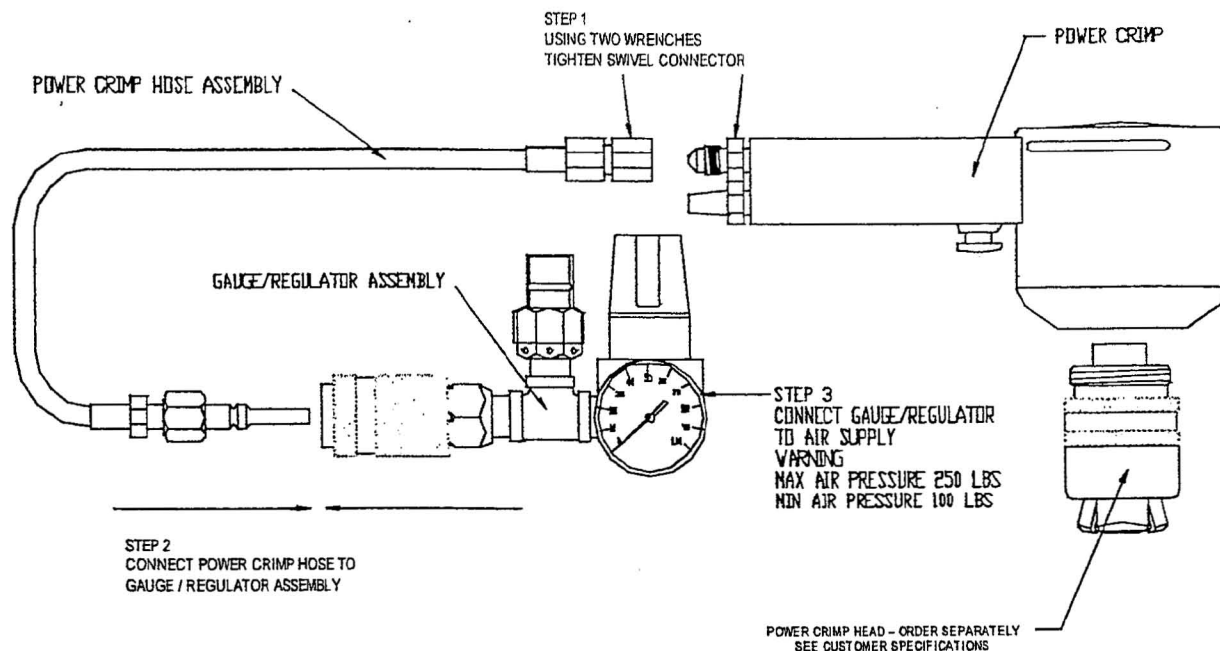


FIGURE 1-2

STEP 1:

Connect the Power Crimp Hose Assembly to the Power Crimp as follows:

Step #1: Install the hose fitting onto the Power Crimp adapter.

Step #2: Place a 1/2" open-end wrench on the adapter of the Kebby Power Crimp. Hold the 1/2" wrench stationary and tighten the hose fitting.

NOTE: Do not over tighten the fitting. Minimum pressure is needed to secure the fitting.

STEP 2:

Connect the Power Crimp Hose Assembly to the Gauge / Regulator.

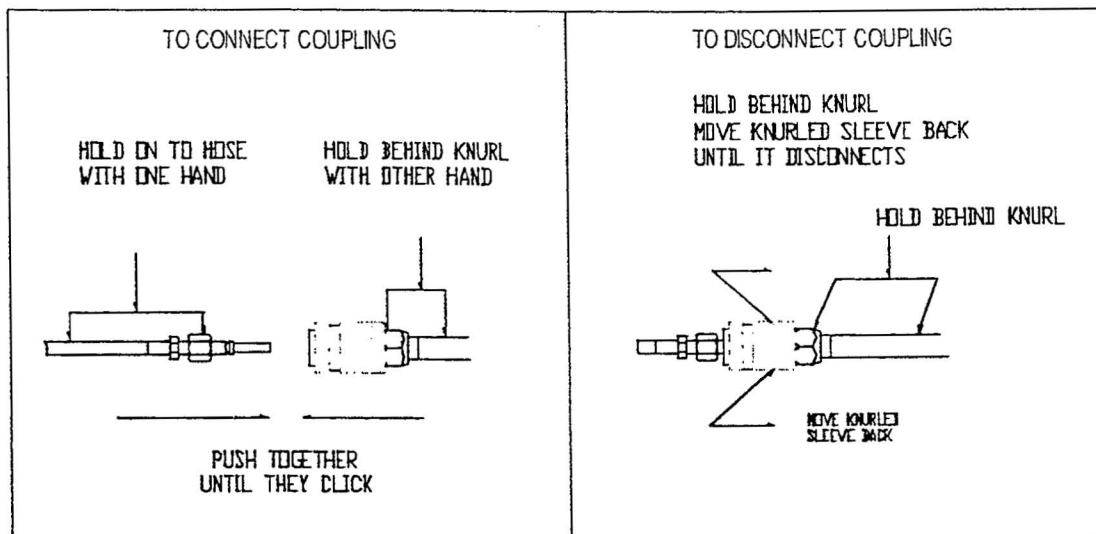



FIGURE 1-3

STEP 3:

Attach main supply air (less than 36% relative humidity @ 60 degrees F) to the Gauge/Regulator.

<p>WARNING</p> 	<p>DO NOT EXCEED 250 PSI.</p>
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1.3.2 POWER CRIMP STAND ASSEMBLY

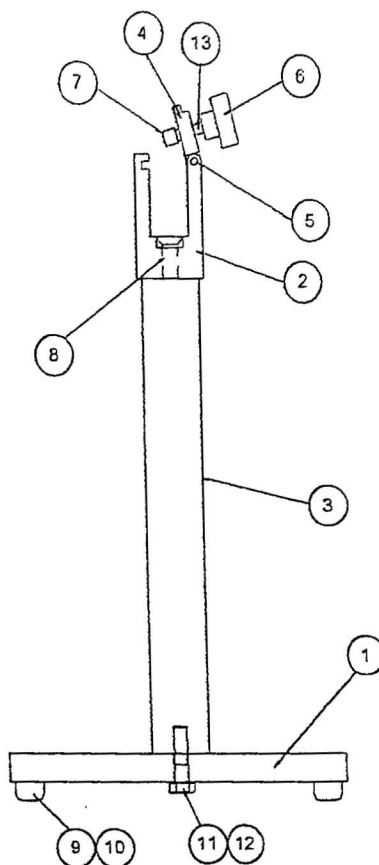


FIGURE 1-4

STEP 1:

Attach Column (3) to Base Plate (1) using Hex Head Cap Screw (11) and Flat Washer (12). Tighten Hex Head Cap Screw (11) securely.

1.3.3 ASSEMBLE POWER CRIMP TO CRIMP STAND

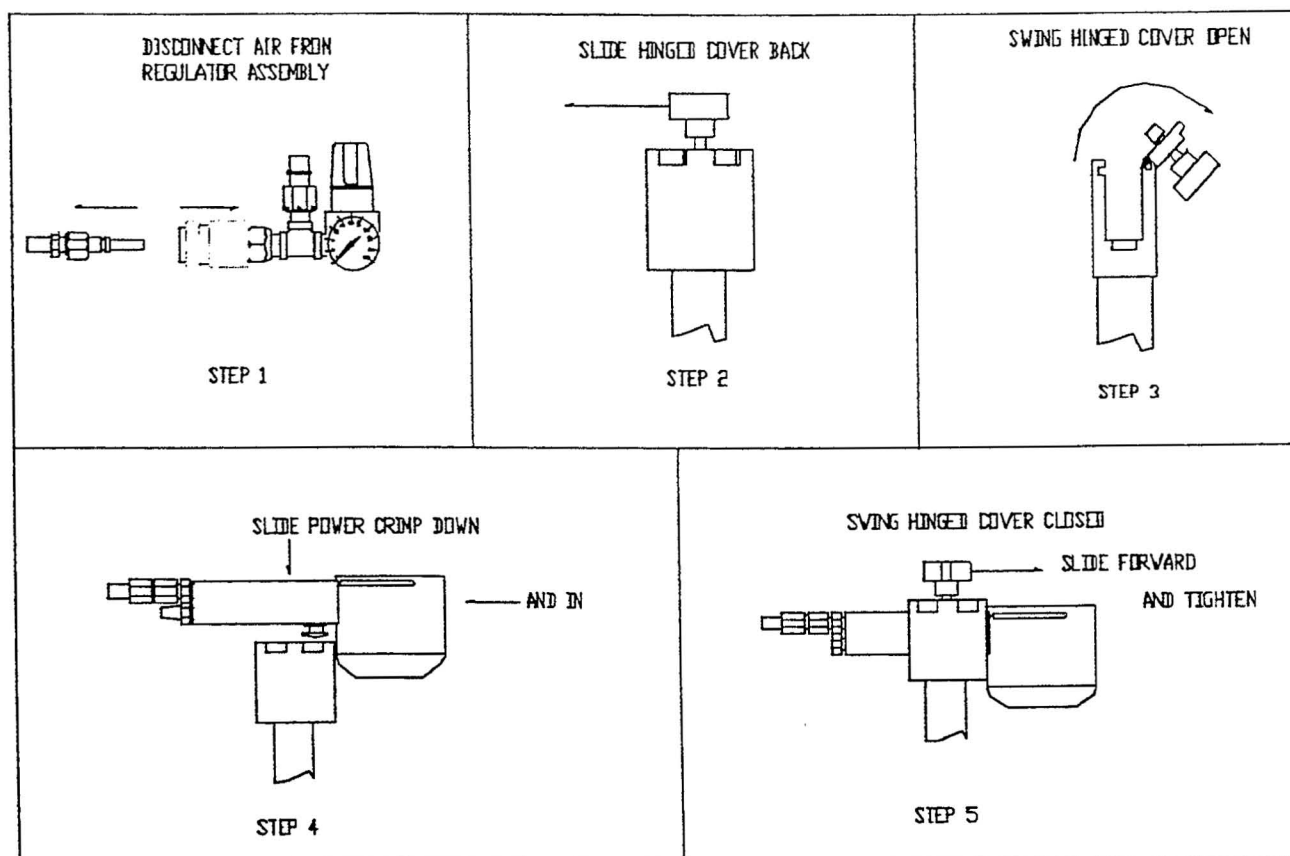


FIGURE 1-5

STEP 1:

Disconnect the air supply from the Gauge/Regulator Assembly.

STEP 2:

Loosen the thumb-screw and slide the hinged cover back on the Crimp Stand Assembly.

STEP 3:

Swing the hinged cover open on the Crimp Stand Assembly.

STEP 4:

Align the Power Crimp with the Crimp Stand and slide the Power Crimp down and into the Crimp Stand Assembly.

STEP 5:

Hold the Power Crimp in place and swing the hinged cover closed. Finger-tighten clamp thumb-screw.

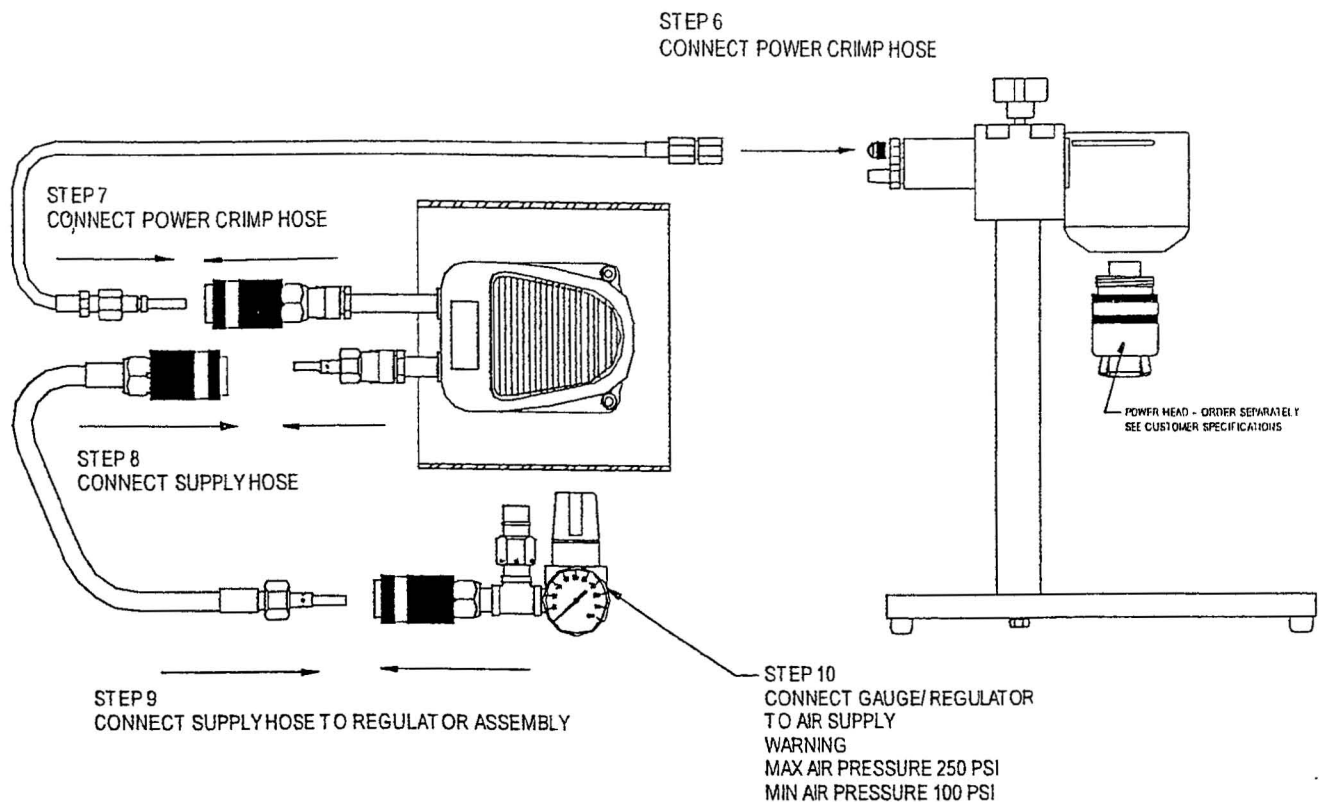


FIGURE 1-6

STEP 6:

Connect the Power Crimp Hose Assembly to the Power Crimp as follows:

- Step #1: Install the hose fitting onto the Power Crimp Adapter.
- Step #2: Place a 1/2" open-end wrench on the adapter of the Kebby Power Crimp. Hold the 1/2" wrench stationary and tighten the hose fitting.

NOTE: Do not over tighten the fitting. Minimum pressure is needed to secure the fitting.

STEP 7:

Connect the Power Crimp Hose fitting to the quick disconnect of the Foot Pedal Assembly.

STEP 8:


Connect the Supply Hose to the quick disconnect fitting on the Foot Pedal Assembly.

STEP 9:

Connect the Supply Hose Assembly to the Gauge/Regulator Assembly.

STEP 10:

Attach main air supply (less than 36% relative humidity @ 60 degrees F) to the Gauge/Regulator.

<p>WARNING</p> 	<p>DO NOT EXCEED 250 PSI.</p>
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1.3.4 POWER CRIMP HEAD INSTALLATION

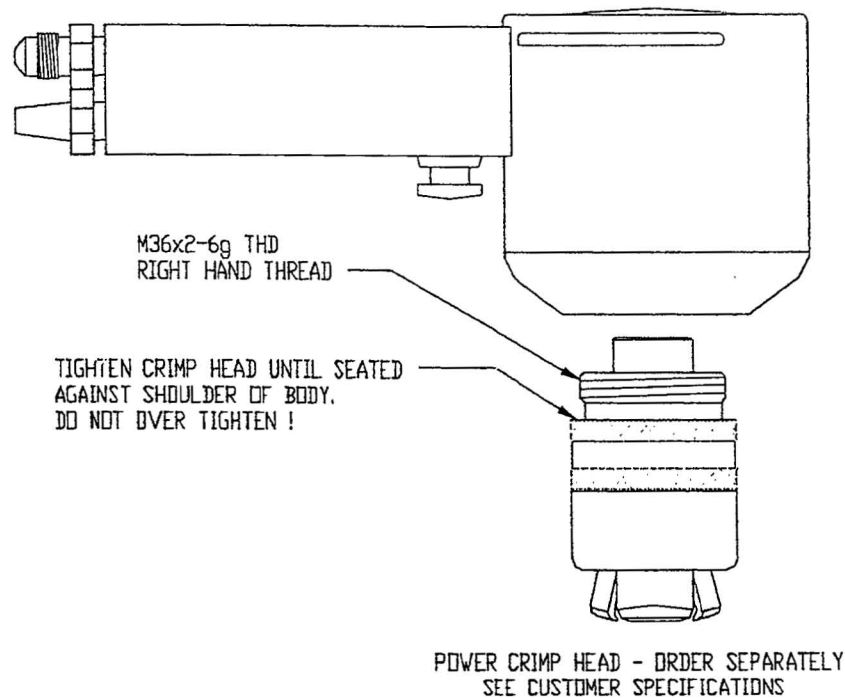



FIGURE 1-7

WARNING 	WHEN INSTALLING OR REMOVING POWER CRIMP HEAD, SET AIR PRESSURE TO 0 PSI.
---	---

STEP 1:

Insert appropriate Power Head (sold separately) by turning to the right to tighten, left to loosen.

NOTE: Do not over tighten the Power Head. Minimum pressure is needed to secure the Power Head.

1.3.5 INSTALLATION OF VERIFICATION GAUGE

The verification gauge (Figure 1-1) is mounted on a swivel fitting allowing it to be placed on the right or left side of the Kebby Power Crimp.

Step 1:

Place a 1/2" open-end wrench on the adapter of the Kebby Power Crimp. Hold the 1/2" wrench stationary and loosen the retaining nut on the hose. Remove the fitting from the adapter.

Step 2:

Install the verification nut onto the Kebby Power Crimp adaptor. Hold the 1/2" wrench stationary and tighten the nut using a 9/16 open-end wrench.

Step 3:

Install the hose fitting onto the back of the verification gauge adaptor. Place a 1/2" open-end wrench on square block of verification gauge adaptor. Hold the 1/2" wrench stationary and tighten the hose fitting.

NOTE: Do not over tighten the fitting. Minimum pressure is needed to secure the fitting.

CHAPTER 2

SET-UP AND OPERATING INSTRUCTIONS

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2.0 INTRODUCTION

This manual has been prepared to aid you in the operation of your KEBBY POWER CRIMP. The following chapter will guide you through the machine set-up and operation.

2.1 CRIMP SET-UP AND OPERATING INSTRUCTIONS

In order to use your Kebby Power Crimp correctly and obtain the best crimp, use the following steps:

STEP 1:

Set the air pressure to zero psi. Turn the regulator adjustment knob (Figure 1-5) counter clockwise to decrease the air pressure to zero psi.

NOTE: The knob is a push to lock, pull to unlock knob. If the knob will not turn, it may be in the locked position. To unlock the knob, pull up on the knob and push down on the knob to lock.

STEP 2:

Insert appropriate Power Head (sold separately) for crimping into the Power Crimp assembly.

STEP 3:

Assemble stopper and cap on the top of the bottle.

STEP 4:

Increase the air pressure to approximately 15 psi.

STEP 5:

Insert the bottle and cap assembly into the Kebby Power Head Crimp with the pressure set to 15 psi and actuate the Crimp. Wait approximately 1 to 2 seconds before releasing the Crimp.


Inspect cap for proper seal. If seal is not crimped to meet your requirements, increase the air pressure by turning the knob clockwise at approximately 2 to 3 psi increments until seal meets your requirements.

Remove crimped seal or partially crimped seal, replace with new seal and stopper if necessary before crimping at increased pressure. Repeat increasing pressure approximately 2 to 3 psi until crimped seal meets your requirements.

NOTE: If a verification gauge is installed, it is used as a visual aid to determine when the crimp is complete. The crimp has been completed when the needle on the gauge has stabilized and no longer moves. The needle on the verification gauge shows the pressure at which the crimp is being performed.

STEP 6:

If the crimp is unsatisfactory and the pressure needs to be adjusted, unlock the pressure knob to change the pressure and lock the pressure knob before crimping. To avoid pressure variation throughout the run, push down on the pressure knob to lock it in place.

WARNING 	KEEP HANDS CLEAR OF MOVING PARTS.
---	--

2.2 CAP REMOVAL SET-UP AND OPERATING INSTRUCTIONS

NOTE: Cap will be destroyed during removal procedure.

In order to use your new Kebby Power Crimp correctly for cap removal, use the following steps:

STEP 1:

Set the air pressure to zero psi. Turn the regulator adjustment knob (Figure 1-5) counter clockwise to decrease the air pressure to zero psi.

NOTE: The knob is a push to lock, pull to unlock knob. If the knob will not turn, it may be in the locked position. To unlock the knob, pull up on the knob and push down on the knob to lock.

STEP 2:

Insert appropriate Power Head (sold separately) for de-capping into the Power Crimp assembly.


NOTE: Caps with plastic tops cannot be de-capped with plastic in place. It must be removed before de-capping can take place.

STEP 3:

Insert the bottle and cap assembly into the Kebby Power Head De-capper with the pressure set to 30 psi and actuate the Power Crimp. Wait approximately 1 to 2 seconds before releasing the Power Crimp.

If the cap did not come off, increase Crimp pressure 3 to 5 psi and repeat this step until the bottle is de-capped. Do not use more Crimp pressure than necessary.

NOTE: START CRIMP PRESSURE AT 30 PSI. INCREASE THE CRIMP PRESSURE IN SMALL INCREMENTS UNTIL THE CAP IS FULLY REMOVED.

WARNING 	KEEP HANDS CLEAR OF MOVING PARTS.
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CHAPTER 3

PREVENTIVE MAINTENANCE

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3.0 PREVENTIVE MAINTENANCE

Service, reliability, and accuracy are only possible when all the notes and instructions are carefully followed.

The time intervals for suggested maintenance work are shown for standard conditions. However, the actual working conditions in a customer's plant may force some alterations in the schedule.

Irregularities and malfunctions must be taken care of immediately.

The Kebby Power Crimp embodies a combination of modern engineering skills, the finest material, and workmanship. We believe this machine to be the finest of its kind; however, its life performance depends on its proper use, care, and maintenance.

The information contained in this chapter, when used along with the machine drawings provided by Kebby Industries Inc., will simplify the care and handling of the machine and help you obtain maximum benefits from your new machine.

Any questions or comments regarding the operation or maintenance of your machine are welcome and will be handled promptly by our service department at any time.

Call or write:

KEBBY INDUSTRIES INC.

4075 KILBURN AVENUE

ROCKFORD, ILLINOIS 61101, USA

PHONE: (815) 963-1466

FAX: (815) 962-3490

3.1 STANDARD MAINTENANCE CHARTS

The following pages are the PREVENTIVE MAINTENANCE CHARTS. These charts represent items that need periodic checking or maintenance.

NOTE: ALL SCHEDULED MAINTENANCE TIMES THAT ARE RECOMMENDED IN THIS DOCUMENT ARE BASED ON PAST EXPERIENCE AND SHOULD BE FOLLOWED UNTIL DIFFERENT TIME SCHEDULES BASED ON THE SHOP ENVIRONMENT WHERE THE MACHINE IS LOCATED CAN BE RECOMMENDED.

NOTE: WHEN THE MACHINE IS NOT IN USE, THE AIR SHOULD BE DISCONNECTED FROM THE MACHINE.

NOTE: DO NOT BEND, STRETCH OR CRUSH HOSES.

3.2 ADDITIONAL MAINTENANCE

Refer to the vendor manuals supplied with this unit. These manuals provide specific technical data on periodic maintenance and repair of these components. Read and become familiar with the maintenance required for each piece of vendor supplied equipment. Note vendor recommendations on spare parts.

3.2.1 MACHINE CLEANING

The most important item in machine maintenance is the cleaning of machine components. To more specifically define the task, cleaning has been divided into three categories. Schedules for each category have also been defined.

3.2.1.1 CRITICAL CLEANLINESS AREA

NOTE: CLEANING SHOULD BE DONE ON A DAILY BASIS.

For the purpose of preventive maintenance, this category involves an area where excessive dirt accumulation inhibits normal machine movement.

3.2.1.2 NONCRITICAL BUT DETRIMENTAL

NOTE: CLEANING SHOULD BE DONE ON A WEEKLY BASIS.

This category involves an area that, if not cleaned, will gradually deteriorate machine performance.

- Power Crimp
- Power Crimp Hose Assemblies
- Foot Pedal Assembly
- Supply Air Hose Assembly
- Gauge/Regulator Assembly
- Power Crimp Stand Assembly

3.2.2 HOUSEKEEPING

NOTE: CLEANING SHOULD BE DONE ON A MONTHLY BASIS.

This category applies to areas around the machine, regardless of their condition, that will not directly affect machine performance.

NOTE: SAFETY AND ACCESS TO MACHINE WORK AREAS MAY BE AFFECTED.

For example:

- Areas between work stations
- Floors and work benches

MACHINE CLEANING (cont.)

MAINTENANCE PROCEDURE	DAILY	WEEKLY	MONTHLY	QRTLY	SEMI-ANNUALLY	ANNUALLY
Keep the operator's area free of clutter.	EVERY SHIFT					
Painted surfaces as well as stainless steel and aluminum should be cleaned with a cloth or paper towel and rubbing alcohol. NOTE: Do not wipe hoses with rubbing alcohol.	EVERY SHIFT					
Inspect hoses. Replace if necessary.	INSPECT					
Clean excess grease residue from surfaces. (Those surfaces not covered)	CLEAN					
Gently clean and dry hoses with damp towel.	CLEAN					

TABLE A

3.3 PNEUMATIC SYSTEM

Preventive maintenance of the pneumatic system requires a clean, dry (less than 36% relative humidity @ 60 degrees F) shop compressed air supply. Experience has shown that foreign material lodging in the air supply valves is a major cause of breakdowns. This contamination of the system will occur from two sources.

The first occurs naturally inside the system. This includes rust, plus a small amount of grit, caused by the wearing of components as they perform their functions. Varnish will also form, as a result of oxygen reacting with lubrication oil.

The second includes materials such as rust, scale, and water entering the system from an outside source.

3.3.1 PNEUMATIC SYSTEM PREVENTIVE MAINTENANCE

MAINTENANCE PROCEDURE	DAILY	WEEKLY	MONTHLY	QRTLY	ANNUALLY
Clean and drain water from the shop air system filter. If water appears on a daily basis, a dryer may be needed on the supply line.	CHECK				
Check shop air system air lubricator and filter.		CHECK			
Check air pressure regulator.		CHECK			
Check pressure gauges for accuracy.			CHECK		
Inspect air distribution lines for leaks and damage.				INSPECT	
Check air line fittings for tightness.					CHECK
Clean and inspect internal components of air valves.					CHECK

TABLE B

3.3.2 EFFECTS OF CONTAMINATES ON PNEUMATIC SYSTEMS

Solids in the system are abrasive. As solids pass through the system, a scouring of the components may take place. This destruction occurs over an extended period of time, and results in the gradual deterioration of the system efficiency.

NOTE: SHOP AIR SYSTEM FILTER MAINTENANCE IS THE BEST MEANS OF LIMITING THE DESTRUCTION AND CONTAMINATION BY SOLIDS AND WATER IN THE PNEUMATIC SYSTEM.

CHAPTER 4

ILLUSTRATED PARTS LIST

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4.0 INTRODUCTION

The illustrated parts list is provided as a reference only. Please refer to the following drawings when maintaining the machine or ordering replacement parts.

4.1 KEBBY POWER CRIMP AND ACCESSORIES

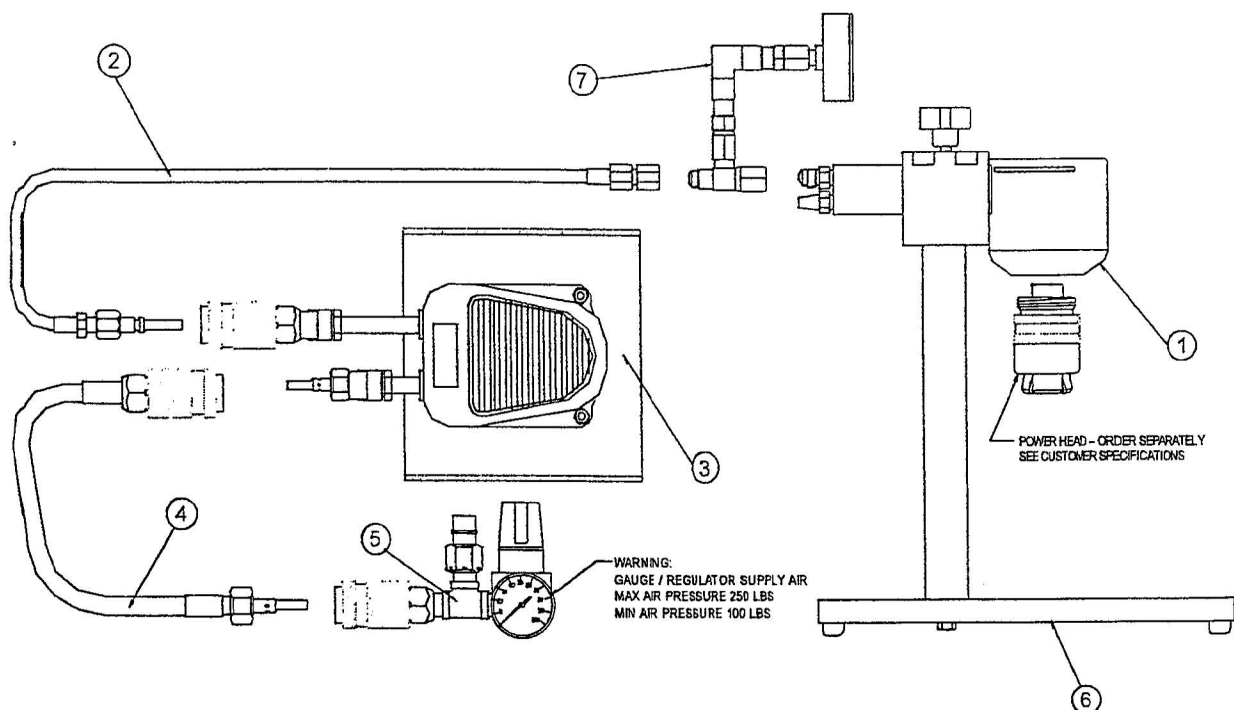


FIGURE 4-1 KEBBY POWER CRIMP AND ACCESSORIES

NUMBER	QTY	DRWG. NO.	PART NUMBER	DESCRIPTION
1	1	A-19001-1	A10001	POWER CRIMP
2	1	A-19005-1	SEE DWG.	POWER CRIMP HOSE ASSEMBLY
3	1	A-19007-1	A10011	FOOT PEDAL ASSEMBLY
4	1	A-19004-1	A10005	SUPPLY AIR HOSE ASSEMBLY
5	1	A-19002-1	SEE DWG.	GAUGE/REGULATOR ASSEMBLY
6	1	A-19006-1	A10010	POWER CRIMP STAND ASSEMBLY
7	1	A-19003-1	A10013	AIR PRESSURE VERIFICATION ASSEMBLY
8	1		SEE DWG.	PRO-SEAL (Shown Separately)

TABLE 4-1 KEBBY POWER CRIMP AND ACCESSORIES

4.2 POWER CRIMP

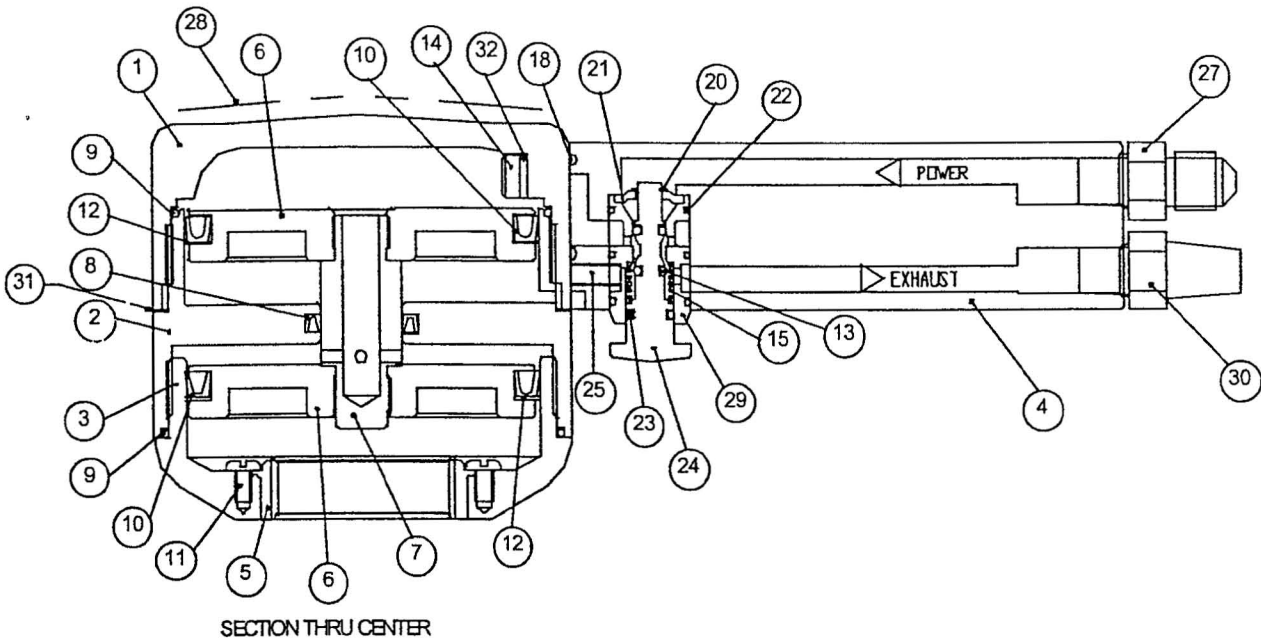


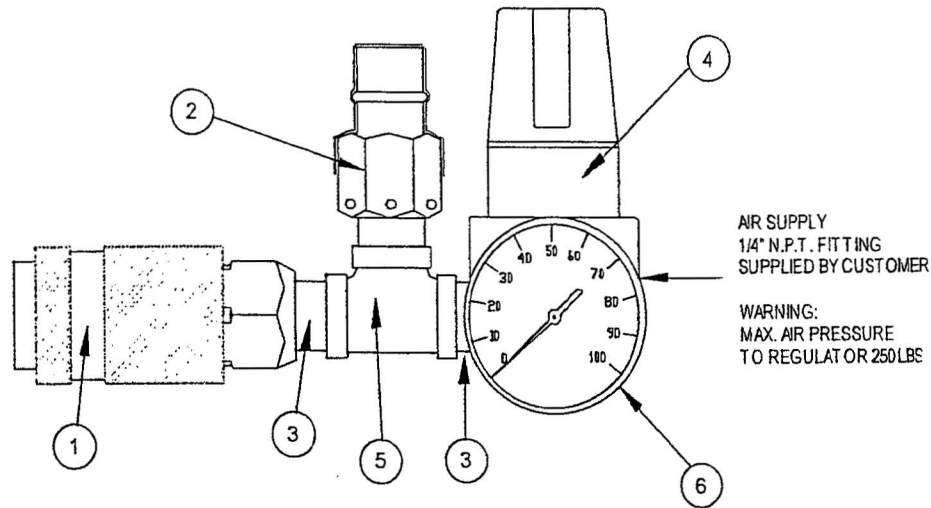
FIGURE 4-2 DWG-A19001-1

NUMBER	QTY	PART NUMBER	DESCRIPTION
1	1	A30032	TOP CASE
2	1	A30033	CENTER CASE
3	1	A30034	BOTTOM CASE
4	1	A30035	HANDLE
5	1	A30036	INSERT (THREAD)
6	2	A30037	PISTON
7	1	A30038	ROD (PISTON)
8	1	A30039	SEAL (1/8 X 5/8 ID)
9	2	069-040	O-RING (-040)
10	2	A30040	SEAL (3/16 X 2 3/8 ID)
11	2	91-0632-A-025-A	SCREW
12	2	A30041	SPACER (TEFLON)
13	1	069-006	O-RING (-006)
14	2	91-1032-8-075-A	SCREW
15	1	A30043	RETURN SPRING
18	2	069-014	O-RING (-014)
20	1	76-3100-18	RETAINING RING
21	1	A30102	POPPET GUIDE
22	1	069-0063-01	O-RING
23	1	069-010	O-RING (-010)
24	1	A30100	POPPET (SPOOL)
25	3	91-8C31SSCS	SET SCREW SS
27	1	A30050	ADAPTER
28	1	A30051	NAMEPLATE
29	1	A30101	POPPET VALVE BODY
30	1	A30063	BREATHER/VENT
31	1	A30400	GASKET, CYLINDER
32	1	A30083	WASHER, COPPER

TABLE 4-2 POWER CRIMP P/N A10001

4.3 GAUGE/REGULATOR ASSEMBLY

BRASS GAUGE / ZINC REGULATOR ASSEMBLY - P/N A10002



(OPTIONAL) STAINLESS STEEL GAUGE / REGULATOR ASSEMBLY - P/N A10003

FIGURE 4-3 DWG-A-19002-1

NUMBER	QTY	PART NUMBER	DESCRIPTION
BRASS GAUGE/REGULATOR ASSEMBLY P/N A10002			
1	1	A30002	1/4" FEMALE COUPLER (ZINC CHROMATE FINISH)
2	1	A30003	1/4" AIR RELIEF VALVE
3	2	A30004	1/4" HEX NIPPLE
4	1	A30005	1/4" REGULATOR
5	1	A30006	1/4" FEMALE TEE
6	1	A30007	AIR PRESSURE GAUGE
(OPTIONAL) STAINLESS STEEL GAUGE/REGULATOR ASSEMBLY P/N A10003			
1	1	A30002	1/4" FEMALE COUPLER (ZINC CHROMATE FINISH)
2	1	A30008	1/4" AIR RELIEF VALVE
3	2	A30009	1/4" HEX NIPPLE
4	1	A300010	1/4" REGULATOR
5	1	A30011	1/4" FEMALE TEE
6	1	A30012	AIR PRESSURE GAUGE

TABLE 4-3 GAUGE / REGULATOR ASSEMBLY
P/N A10002 AND P/N A10003

4.4 AIR PRESSURE VERIFICATION GAUGE ASSEMBLY

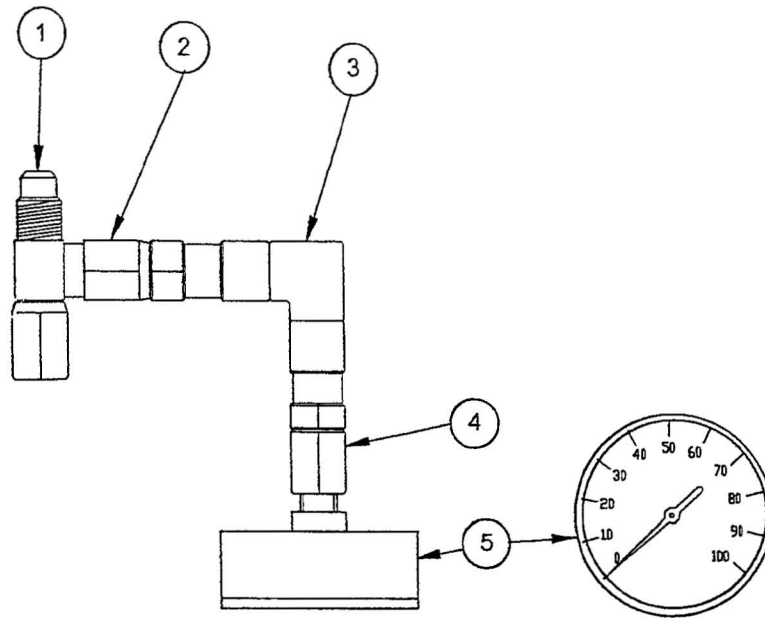


FIGURE 4-4 DWG-A-19003-1

NUMBER	QTY	PART NUMBER	DESCRIPTION
1	1	A30066	SWIVEL NUT RUN TEE
2	1	A30068	SWIVEL NUT TO MALE PIPE ADAPTER
3	1	A30020	1/4" NPT ELBOW
4	1	A30067	SWIVEL 1/4-1/4 NPT
5	1	A30092	AIR PRESSURE GAUGE 1/4 NPT MALE

TABLE 4-4 AIR PRESSURE VERIFICATION GAUGE ASSEMBLY P/N A10013

4.5 SUPPLY AIR HOSE ASSEMBLY

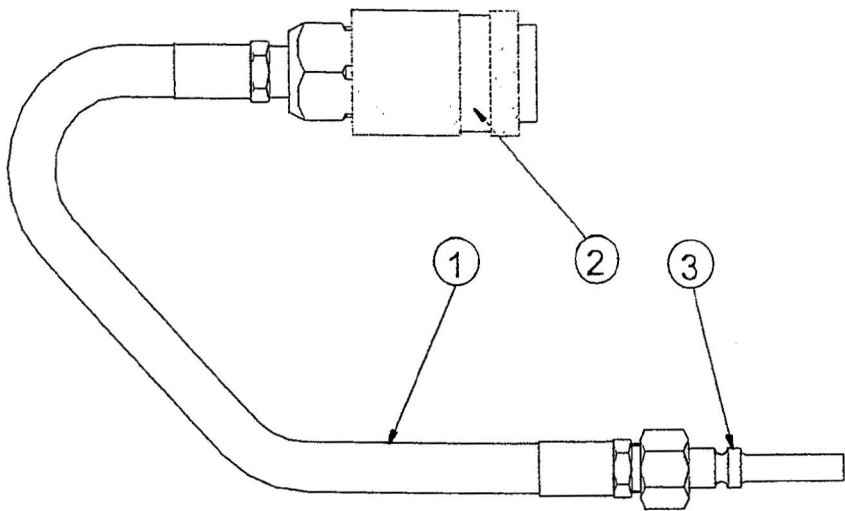
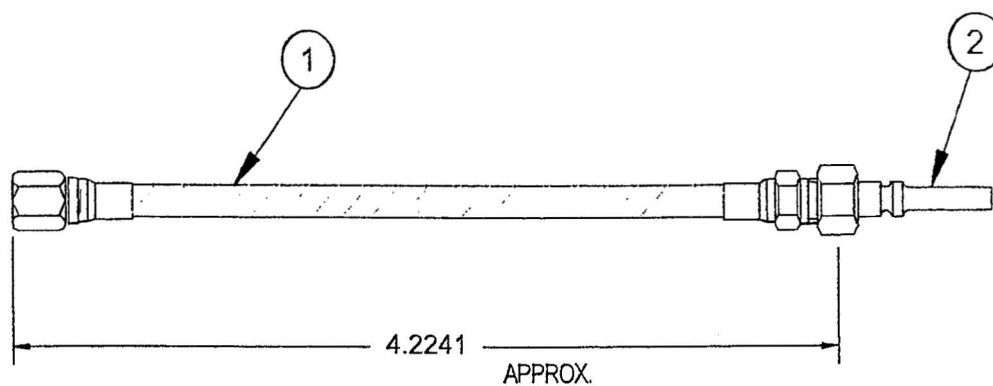


FIGURE 4-5 DWG-A-19004-1

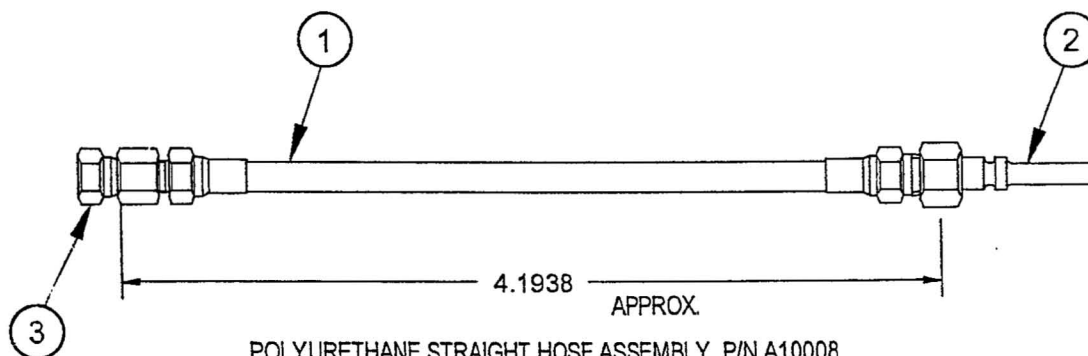
NUMBER	QTY	PART NUMBER	DESCRIPTION
1	1	A30026	"BUNA-N" RUBBER HOSE (8 FT) W/BRASS FITTINGS
2	1	A30002	1/4" FEMALE COUPLER (ZINC CHROMATE FINISH)
3	1	A30017	1/4" FEMALE COUPLER (ZINC CHROMATE FINISH)

TABLE 4-5 SUPPLY AIR HOSE ASSEMBLY P/N A10005

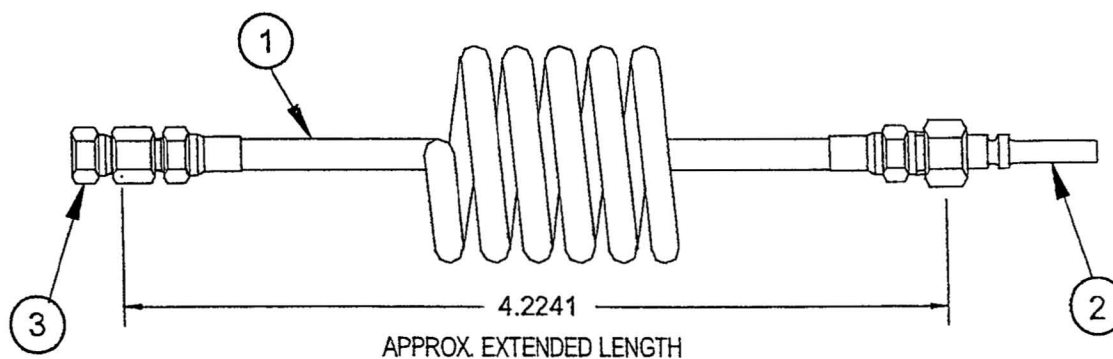
4.6 POWER CRIMP AIR SUPPLY HOSE ASSEMBLY



BRAIDED STAINLESS STEEL HOSE ASSEMBLY P/N A10009



POLYURETHANE STRAIGHT HOSE ASSEMBLY P/N A10008



POLYURETHANE SELF-STORING HOSE ASSEMBLY P/N A10007

FIGURE 4-6 DWG. A-19005-1

NUMBER	QTY	PART NUMBER	DESCRIPTION
BRAIDED STAINLESS STEEL HOSE ASSEMBLY P/N A10009			
1	1	A30027	S.S. BRAIDED/TEFLON HOSE W / S.S. FITTINGS
2	1	A30017	FEMALE CONNECTOR (ZINC CHROMATE FINISH)
POLYURETHANE STRAIGHT HOSE ASSEMBLY P/N A10008			
1	1	A30062	INNER-BRAIDED POLYURETHANE HOSE W / BRASS FITTINGS
2	1	A30017	FEMALE CONNECTOR (ZINC CHROMATE FINISH)
3	1	A30058	FEMALE PIPE TO SWIVEL NUT ADAPTER (ZINC CHROMATE FINISH)
POLYURETHANE SELF-STORING HOSE ASSEMBLY P/N A10007			
1	1	A30025	POLYURETHANE SELF-STORING HOSE W / BRASS FITTINGS
2	1	A30017	FEMALE CONNECTOR (ZINC CHROMATE FINISH)
3	1	A30058	FEMALE PIPE TO SWIVEL NUT ADAPTER (ZINC CHROMATE FINISH)

TABLE 4-6 POWER CRIMP AIR SUPPLY HOSE ASSEMBLY
P/N A10009, P/N A10008, AND P/N A10007

4.7 POWER CRIMP STAND ASSEMBLY

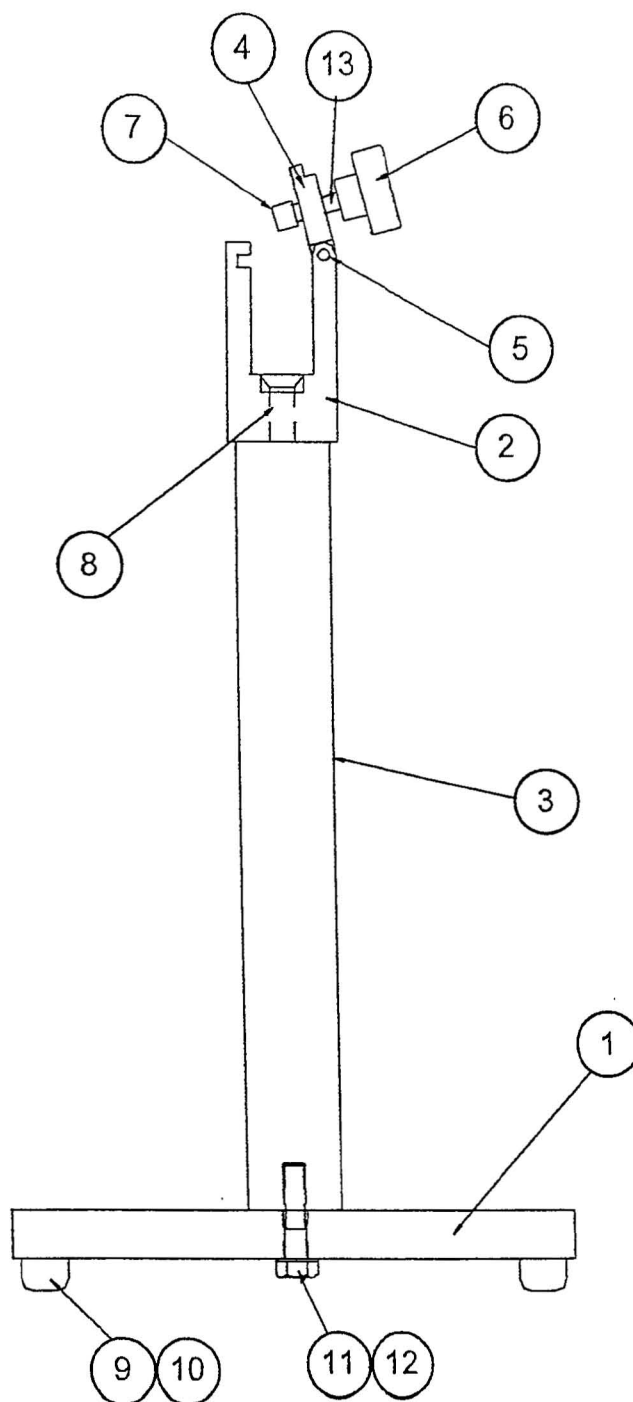


FIGURE 4-7 POWER CRIMP STAND ASSEMBLY - DWG-A19006-1

NUMBER	QTY	PART NUMBER	DESCRIPTION
1	1	A30013	BASE PLATE
2	1	A30014	HANDLE SUPPORT BLOCK
3	1	A30015	POST
4	1	A30023	COVER PLATE
5	1	A30024	HINGE PIN
6	1	A30016	PLASTIC KNOB
7	1	A30059	SCREW CAP
8	1	91-3716-C-175-C	F.H.C.S.
9	4	A30060	STAND PAD
10	4	91-0832-J-050-C	R.H.M.S.
11	1	91-3716-P-175-C	H.H.C.S.
12	1	91-4062-F-000-C	FLAT WASHER
13	1	A30064	1/4-20 X 1" SS SHCS

TABLE 4-7 POWER CRIMP STAND ASSEMBLY – P/N A10010

4.8 FOOT PEDAL ASSEMBLY

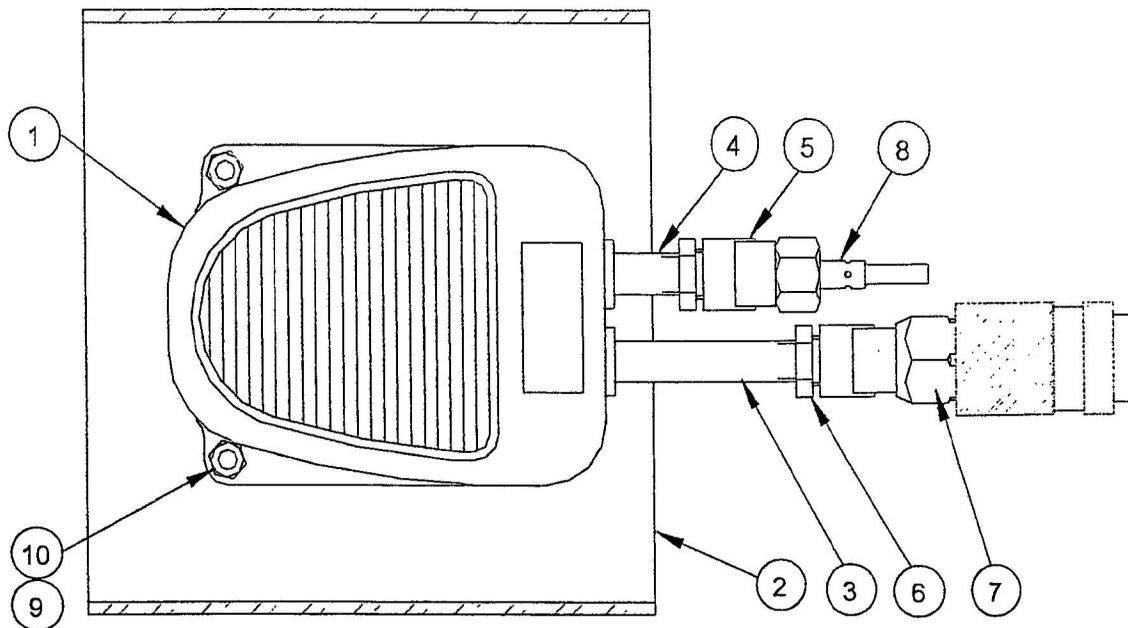


FIGURE 4-8 FOOT PEDAL ASSEMBLY - DWG-A-19007-1

NUMBER	QTY	PART NUMBER	DESCRIPTION
1	1	A30052	FOOT PEDAL
2	1	A30053	FOOT GUARD
3	1	A30054	4" LONG PIPE NIPPLE
4	1	A30055	2-1/2" LONG PIPE
5	2	A30056	45 DEGREE STEEL ELBOW
6	2	A30057	HEX. REDUCER BUSHING
7	1	A30002	1/4" FEMALE COUPLER
8	1	A30017	1/4" FEMALE CONNECTOR
9	2	91-1024-N-000-C	NUT
10	2	91-1024-C-075-B	FLAT HEAD SCREW

TABLE 4-8 FOOT PEDAL ASSEMBLY - P/N A10011

4.9 KEBBY PRO-SEAL

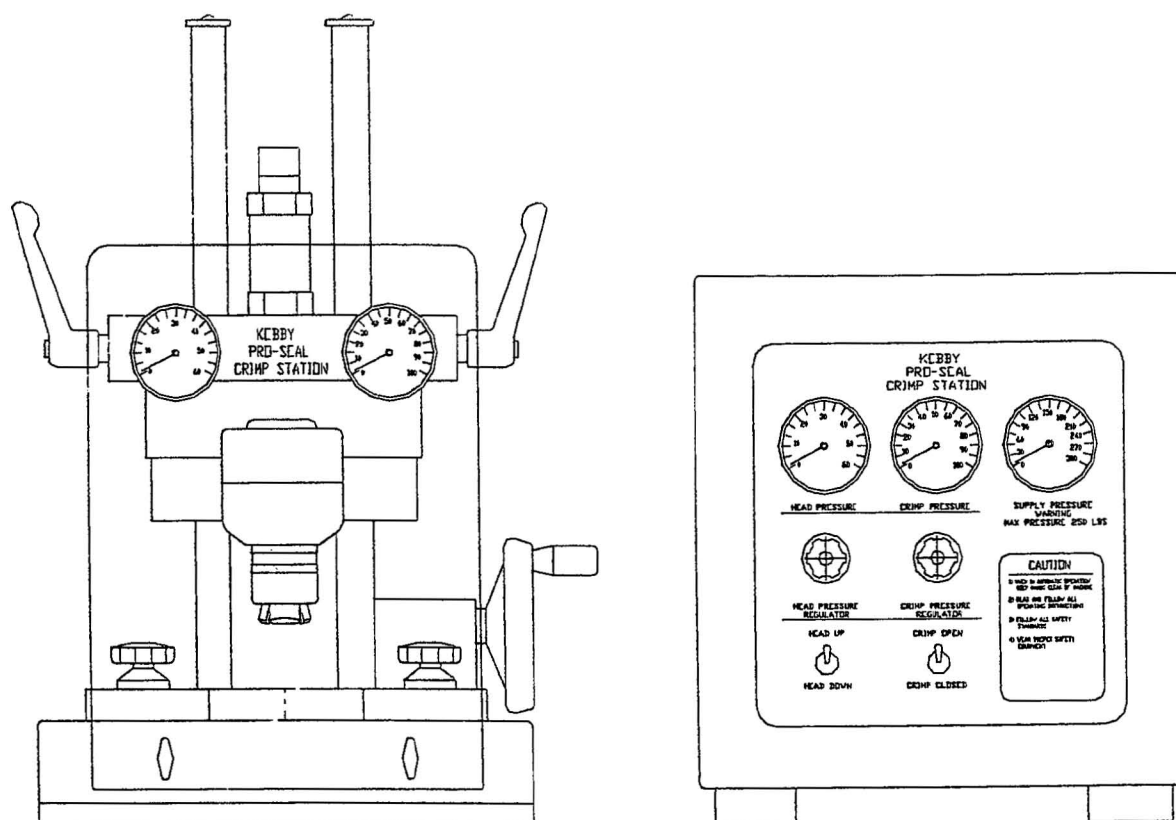


FIGURE 4-9 KEBBY PRO-SEAL

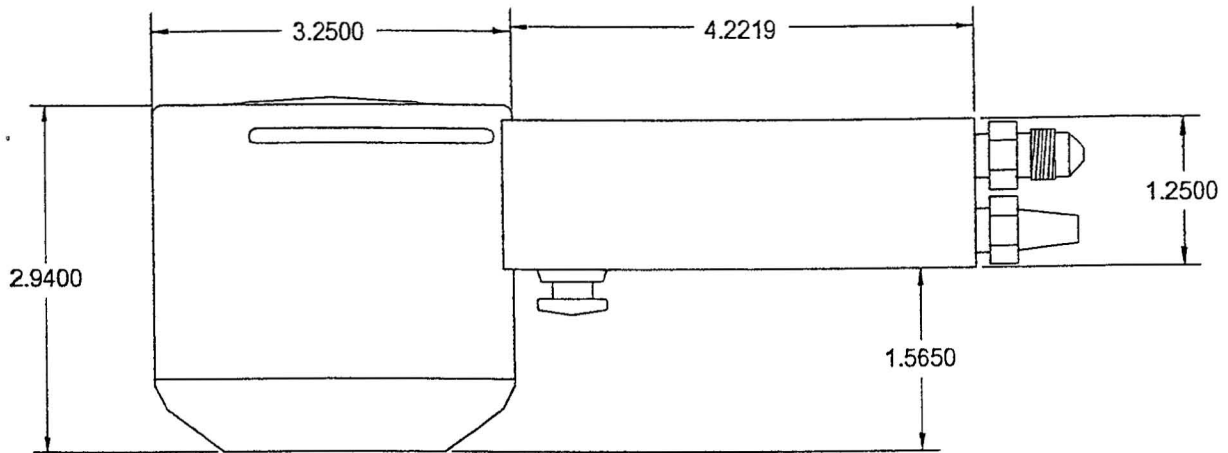
The Kebby "Pro-Seal" is a pneumatically controlled crimping station. It has been designed to increase the speed, ease, pressure and repeatability of crimping for most size bottles and caps.

The Kebby Pro-Seal is the ideal choice when a large quantity of crimp operations is necessary. The Pro-Seal can be set to a specific crimp pressure as well as downward pressure providing a perfect crimp every time.

For more information contact:

Kebby Industries Inc.
4075 Kilburn Avenue
Rockford, IL 61101, USA
Phone: (815) 963-1466
Fax: (815) 962-3490

4.10 POWER CRIMP DIMENSIONS



WEIGHT EACH APPROX: 2.04 LBS

FIGURE 4-10 POWER CRIMP DIMENSIONS - DWG-A-1009-1



KEBBY INDUSTRIES INC

4075 Kilburn Avenue
Rockford, IL 61101 U.S.A.
Phone: 815-963-1466
Fax: 815-962-3490

M02
October 2001