

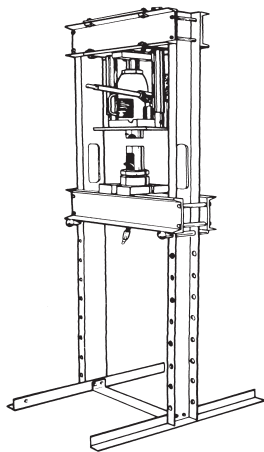
# Equipment

## Coll-O-Crimp T-400-17



Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

### Shop Press Tooling Packages



#### T-400-17 • Shop Press Tooling Package

The T-400-17 Shop Press Tooling Kit allows you to make factory-type hydraulic hose assemblies on your 25-ton shop press. With this minimum investment in equipment, and a nominal stock of packaged bulk hose and hose ends, you can begin to make Coll-O-Crimp hose assemblies in your own shop. This kit includes tooling to crimp 1/4" through 1" hose I.D. 'U' Series hose ends. Additional tooling is available to crimp 5/8" and 1-1/4" I.D. sizes.

#### Included in kit:

##### CATALOG NUMBER DESCRIPTION

T-400-2C	'U' Series Collet – 1/4"
T-400-3C	'U' Series Collet – 3/8"
T-400-4C	'U' Series Collet – 1/2"
T-400-5C	'U' Series Collet – 3/4"
T-400-6C	'U' Series Collet – 1"
T-400-8	Die Ring – 3/16" thru 1-1/4"
T-400-10	Spacer Ring – Black
T-400-11	Spacer Ring – Silver
T-400-17P	Pusher
W-EQCR-TD003-E	Shroud Decal
T-400-MSP	Instructions

### WARNING

These kits are intended for use on shop presses not exceeding a 25-ton rating. Usage of presses exceeding this rating may result in damage to the pusher, causing metal fragments to spray which may result in serious bodily injury.

Reference pages 259-395 for Coll-O-Crimp tooling, tooling packages and pumps.

#### T-400-20A • Shop Press 757 "E" Series Tooling Package

The T-400-20A Shop Press 757 'E' Series Tooling Kit allows you to make factory-type air conditioning hose assemblies on your 25-ton shop press. With this minimum investment in equipment, and a nominal stock of packaged bulk hose and hose ends, you can begin to make Coll-O-Crimp hose assemblies in your own shop. This kit includes tooling to crimp all of the 757 'E' Series hose ends.


#### Included in kit:

##### CATALOG NUMBER DESCRIPTION

T-400-114	757 'E' Series Collets
T-400-8	Die Ring Fits Collets 3/16" thru 1-1/4"
T-400-10	Spacer Ring – Black
T-400-17P	Pusher
W-EQCR-TD003-E	Shroud Decal
FS-3200	Label Set

# Equipment

## Air Conditioning Portable T-475

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 3.

APPLICATION DATA

### T-475-1 • Portable Air Conditioning Press



This hand operated, light-weight and easy to use air conditioning press is engineered and designed specifically for use with Weatherhead 757 'E' series hose end fittings. Perfect for bench mounting this portable press is made of heavy duty construction for use with an air impact wrench. Uses color coded

urethane encased dies and a removable die holder to accommodate complicated shapes. Uses four standard die sizes (#6, #8, #10, and #12) that produce an OE style triple bubble crimp. No electrical requirements necessary.

**Capacity:** Crimps 2-braid dimension nylon barrier or reduced diameter hose.

**Mounting:** Bench or Mount in Vise

**Weight:** 6 lbs.

Reference pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps.

Refer to safety information regarding Coll-O-Crimp crimping procedures on pages 362-367.

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

### T-475 • Portable Air Conditioning Package



**Package includes:**

**CATALOG NUMBER DESCRIPTION**

T-475-1	Portable A/C Press
T-475-105C	#6 Die Set - Brown
T-475-106C	#8 Die Set - Purple
T-475-107C	#10 Die Set - Almond
T-475-108C	#12 Die Set - White

Includes Bench Mount Flange, Die Set Lubricant and Steel Pipe Nipple Extension  
Also includes a Custom Carrying Case with Instructions

SPECIALTY HOSE

ACCESSORIES & ASSEMBLY INSTRUCTIONS


ADAPTERS & TUBE HOSE ENDS

HOSE ASSEMBLY EQUIPMENT

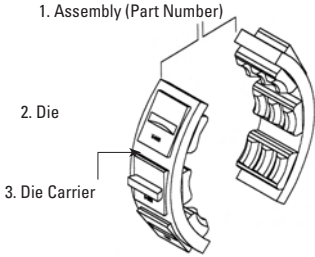
TECHNICAL DATA

# Equipment

## T-475-1 Crimping Procedure

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

### T-475-1 Crimp Die Sets



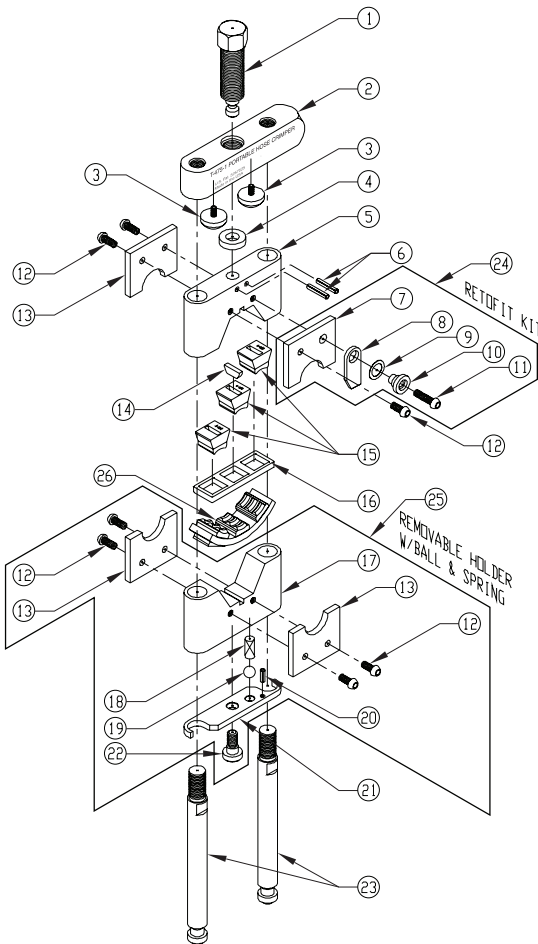
### T-475-1 Die Set Info

ITEM	DESC.	QTY	6	8	10	12
1	Assembly Part No.	1 set	T-475-105C	T-475-106C	T-475-106C	T-475-107C
2	Die Marking	-	556	640	742	897
3	Die Carrier Color	-	Brown	Purple	Almond	White

For use with H757 Hose and 757 'E' Series Hose Ends

### T-475-1 Crimper Parts List

When ordering T-475-1 spare parts, contact: [www.atcoproductsinc.com](http://www.atcoproductsinc.com) or Email: [info@atcomail.com](mailto:info@atcomail.com) or call: 1-972-225-8178.



### Parts List

ITEM	DESCRIPTION	QTY	PART NO.
1	Actuator Screw	1	75013
2	Actuator Bar	1	75001
3	Rubber Bumper	2	75012
4	Thrust Bushing	1	75011
5	Movable Die Holder	1	75005
6	3/16 x 1 Roll Pin	2	75010
7	Die Guide Block (Locator)*	1	75099
8	Locator Flag*	1	75086
9	Curved Disc Spring	1	75088
10	Locator Bushing	1	75087
11	1/4-20 x 1 Button Head Screw*	1	75113
12	1/4-20 x 5/8 Button Head Screw**(4)	7	75003
13	Die Guide Block**(2)	3	75002
17	Removable Die Holder**	1	75075
18	Spring-Compression**	1	75076
19	7/16 Dia. Ball**	1	75077
20	3/16 x 1/2 Roll Pin**	1	75009
21	Latch late	1	75074
22	Lock Screw**	1	75008
23	Strain Rod	2	75020
24	Retrofit it For Flag	1	75116
25	Removable Holder w/Ball & Spring	1	75081

### Items Not Shown

ITEM	DESCRIPTION	QTY	PART NO.
A	5/32 Short Arm Hex Key	1	71731
B	Grease	1	75015
C	3/8 x 4 Pipe Nipple	1	75016
D	3/8 Flooring Flange	1	90607
E	Carrying Case	1	75017
F	Crimper Only (No Dies)	1	3700-1

\* Included in item 24 (Not assembled)

\*\* Included in item 25 (Assembled)

For use with H7575 Hose and 757 'E' Series Hose Ends.

ITEM	DESCRIPTION	QTY	6	8	10	12
-	Die Marking	-	556	640	742	897
26	Crimp Die No.	1 set	T-475-105C	T-475-106C	T-475-108C	T-475-108C
-	Color	-	Brown	Purple	Almond	White
16	Die Carrier	2	75134	75135	75136	75137
15	Die Segment	6	71741	75119	71743	71744

# Equipment

## T-475-1 Crimping Procedure

### Model T-475 Portable Air Conditioning Hose Crimping Kit



#### Features

- Engineered and designed specifically for use with 757 'E' Series black, zinc finished Hose End Fittings
- Portable, hand operation
- OE style triple bubble crimp
- Heavy duty construction for use with air impact wrench
- Color coded, urethane encased dies
- Easy changeover from size to size
- Crimps 2 braid dimension nylon barrier or reduced diameter hose
- Four standard die sizes – #6, #8, #10, #12
- Capable of crimping under-hood applications
- Light weight for easy handling (less than 6 lbs)
- Removable die holder accommodates complicated shapes
- Unit can be bench mounted
- Shipped in a custom carrying case with instructions
- No electrical requirements
- U.S. Patent No. 5257525
- Made in U.S.A.

### Operating Instructions for Model T-475-1 Air Conditioning Hose Crimper

#### General

The Model T-475-1 Crimper is a hand operated hose end crimping unit specifically designed for use with Weatherhead 757 'E' black, zinc finished Series hose ends. It is intended for use with Weatherhead H757 Air Conditioning hose.

The longer Weatherhead ferrule and triple bubble crimp of the T-475-1 insures a superior interface between the hose and the end fittings. In addition, the removable die holder allows for easy access in confined under-hood areas as well as for complicated end shapes.

#### CAUTION

To insure high quality crimped hoses, use only Weatherhead 757 'E' Series black, zinc finished hose and hose ends with this crimper. The crimp dies included will crimp Weatherhead 757 'E' Series black hose ends onto Weatherhead H757 Air Conditioning hose. The dies are housed in replaceable, flexible, color coded polyurethane carriers (see crimp die set parts list on previous page for part numbers) for easy identification of crimp sizes.

CATALOG NUMBER	HOSE NUMBER	COLOR	CRIMP DIAMETER
T-475-105C	H75706	Brown	.556
T-475-106C	H75708	Purple	.640
T-475-107C	H75710	Almond	.742
T-475-108C	H75712	White	.897

\*Refer to T-475-1 Crimper Parts List, page 362.

# Equipment

## T-475-1 Crimping Procedure

### Model T-475 Portable Air Conditioning Hose Crimping Kit

#### Description of terms

The crimper can be operated with a 1/2" drive air impact wrench, ratchet or breaker bar. It takes approximately 100 foot pounds of torque to fully close the jaws and achieve a satisfactory crimp. The crimper can be bench mounted using the flange and pipe nipple provided or it can be mounted in a bench vise to stabilize the unit. If the unit is used in a service vehicle with a mounted vice, it will be necessary to use a 12" minimum long extension to the pipe nipple to counteract the torque while closing the dies. This extension is not provided in the kit.

**Bench mount:** Bolt the flange to a bench top. Screw the pipe nipple and crimper to the flange plate.

**Impact wrench (1/2" DRIVE @ 100 PSIG MAX.):** Use a 1" impact socket to drive the movable die holder.

#### ⚠ CAUTION

Do not exceed 100 PSIG air pressure on the impact wrench as damage to the wrench and the crimper may result.

#### ⚠ CAUTION

Do not continue impacting after the dies are closed. This can cause damage to the crimper.

#### ⚠ CAUTION

Care should be taken when reversing the impact so that the die holder does not slam into the crimper body (actuator bar, Item 2). Bumpers are provided to minimize damage.

#### Ratchet or breaker bar:

Use a 1" socket to drive the movable die holder. It will take approximately 100 foot pounds of torque to achieve a full crimp.

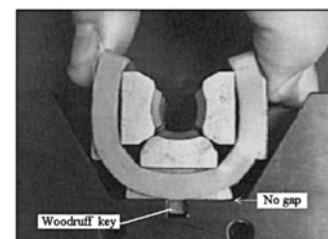
**Removable die holder:** The bottom of the crimper can be removed to accommodate special shapes or under-hood crimping. Push the latch plate (Item 21) open while holding the removable die holder. Pull the holder off the strain rods.

**Die change:** With the removable die holder removed, loosen two of the button head screws (Item 12) on one side of the die holder. The die will drop out of the holder. Apply grease (Item B) to the slide surfaces. Squeeze the outer segments of the die set together and insert the die into the holder making sure that the woodruff key (Item 14) in the center segment snaps fully into the groove in the holder (Refer to Fig. 1).

While holding the die securely in the slot, retighten the two button head screws. Check to make sure that the two outer segments on each half are free to move. If they do not move freely, remove and inspect for damaged guide block pad or dirt.

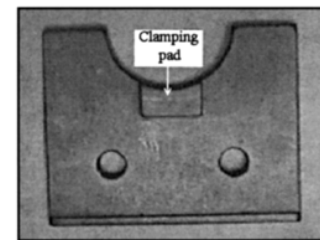
#### ⚠ CAUTION

Retention of the woodruff key in the slot while tightening the screws is most important. Failure to do so will result in an irregular crimp and damage to the guide blocks and Woodruff Key (Refer to Fig. 2).

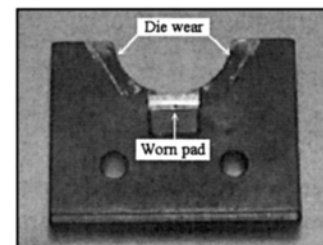


**Figure 1**

Die carrier properly inserted in holder.



Undamaged Pad



Damaged Pad

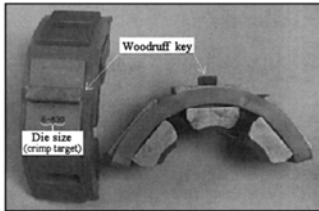
**Figure 2**



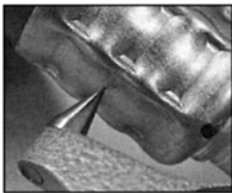
# Equipment

## T-475-1 Crimping Procedure

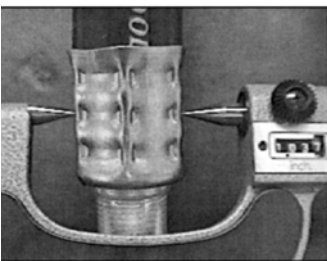
**!** Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.



**Figure 3**  
Dies with woodruff keys in place.



Position of tip of micrometer.



Measuring the crimp with a micrometer.  
**Figure 4**

### **!** CAUTION

It is not necessary to over-tighten the screws. Always use the short hex key wrench provided in order to avoid damage.

#### **Die Carrier:**

The die carriers will become worn and produce unacceptable crimps with time. To replace the color coded die carriers, simply push the die segment out of the back of the carrier. Reverse the process to assemble die segments in the new carrier.

#### **Woodruff Key:**

The woodruff key is bonded into the slot in the center die segment. It is used to align the dies in the die holders (Refer to Fig. 3).

### **!** CAUTION

If the woodruff key is not in the center segment of each half of the die set, an irregular crimp will be formed increasing the probability of leakage.

### **!** CAUTION

Never use dies without woodruff key engaged in the slot of the segment and holder.

To replace the woodruff key, use a screwdriver and hammer to remove the old key. Replace the key using a drop of adhesive such as Loctite® to hold the key securely.

#### **Locator Flag:**

There is a locator flag on the crimper. It is spring loaded and movable to locate the end of the ferrule for proper crimp location. Swivel the flag to a position so that when the fitting is inserted into the crimper, the ferrule will stop in the proper location for crimping.

#### **Crimp diameter measurement:**

The crimp diameter can be measured by using a set of point micrometers or calipers with a point accessory kit installed. Standard measuring instruments will not reach to the crimp impression because of the pinch of the crimp. When measuring the crimp diameter, take three measurements around the center crimp ring. Add the measurements, divide by three to get the average. The average should be the target crimp diameter (+.015/-.005). Example: The #6 size is .556 target crimp diameter. The crimp should measure between .571 and .551 (Refer to Fig 4).

#### **Hose Wall Thickness:**

The hose wall thicknesses for one braid dimension hoses are listed below. It is important to check the hose wall thickness to make sure that the crimp will be leak free.

HOSE SIZE	HOSE O.D.
#6 - 5/16 I.D.	9/16
#8 - 13/32 I.D.	11/16
#10 - 1/2 I.D.	3/4
#12 - 5/8 I.D.	15/16

#### **Operation**

1. Mount the crimper as described previously unless it is necessary to mount it in the vice on the service vehicle.
2. Select the proper size dies. Check all segments to make sure that all of the segments have the same numbers on the back. Each segment will be marked identifying the hose size and crimp diameter. Example: 5/16 ID hose with a .556 diameter crimp will be marked "556" (Refer to Fig. 3).
3. Lubricate the slides of the crimper die holders (Items 5 and 17) and the screw thread (Item 1) with an appropriate grease (Item B).
4. Refer to die change outlined above for proper assembly of the dies into the crimper.
5. Position the locator flag (Item 8) so the ferrule of the fitting bumps it on the side when inserted into the crimper.

### **!** CAUTION

Do not locate from the bead on the fitting. This will result in the wrong crimp location.

6. Insert the hose into the fitting making sure that the hose appears in the small inspection hole on the side or end of the ferrule.

### **!** CAUTION

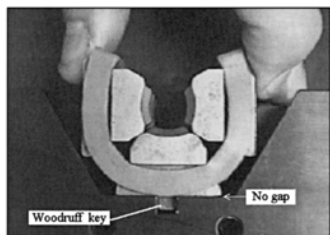
If the hose does not appear in the inspection hole, a poor crimp may result.

Loctite® is a registered trademark of Loctite Corporation.

# Equipment

## T-475-1 Crimping Procedure

**!** Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.



**Figure 5**  
Crimp head completely closed.

\*Refer to T-475-1 Crimper Parts List, page 362.

7. Place the assembly into the crimper and hold it against the locator flag. Only the ferrule should touch the screw. Operate the screw (Item 1) to close the dies to the full closed position. This will provide the proper compression to achieve a leak free crimp. When the crimp dies are bottomed out, there will be a slight gap between the two die holders (Items 5 & 17). This insures that the dies are fully closed before the holders bottom out (Refer to Fig. 5).

8. Reverse the screw (Item 1) to release the crimper from the hose assembly. Take care not to drive the die holder (Item 5) against the actuator bar (Item 2) as damage to the crimper may result. The bumpers (Item 3) are provided as a cushion to help prevent this from occurring.

9. If the crimp is performed under hood or the fitting is a complicated shape that requires disassembly of the crimper, open the latch plate (Item 21) and remove the die holder (Item 17).

10. Inspect the first crimp to make sure that the correct dies were used, the crimp location is correct, the crimp is uniform and there is no internal deformation of the fitting.

### Note:

Some hose materials trap air in the hose layers during manufacture. When leak testing a newly pressurized hose using soap bubbles or water submersion, the air in the hose will bleed out at the fitting and hose interface indicating a false leaking condition. Leave the hose pressurized for one hour and retest. The residual air should completely bleed out and no leak will be visible.

### Crimper Maintenance

1. Clean and lubricate all moving parts. Use an appropriate grease (Item B) as needed when lubricating.
2. Inspect the strain rods and latch plate for wear around the contact points.
3. Make sure the actuator screw turns freely. Lubricate as noted above.
4. Check for worn or torn die carriers. Replace when crimp appears to go out of round.
5. Inspect woodruff keys. Replace if they are damaged or missing to insure good crimps.

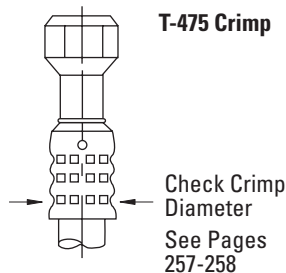
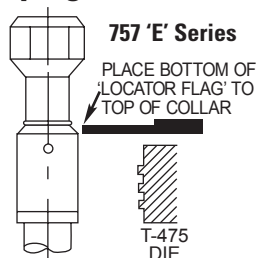
## Troubleshooting

PROBLEM	CAUSE	ACTION
1. Oblong or irregular crimp	<ul style="list-style-type: none"> <li>• Worn carriers</li> <li>• One die segment in the set is the wrong size</li> <li>• Woodruff key missing</li> <li>• Guide blocks installed backwards</li> </ul>	<ul style="list-style-type: none"> <li>• Replace carriers</li> <li>• Check all segments for correct size on back of die</li> <li>• Replace key</li> <li>• Turn guide blocks around so raised pad clamps on die</li> </ul>
2. Crimp diameter too large	<ul style="list-style-type: none"> <li>• Crimper not fully closed – refer to instructions</li> <li>• Incorrect size dies</li> </ul>	<ul style="list-style-type: none"> <li>• Recrimp until dies fully close</li> <li>• Replace with correct size</li> </ul>
3. Crimp diameter too small	<ul style="list-style-type: none"> <li>• Incorrect size dies</li> </ul>	<ul style="list-style-type: none"> <li>• Replace with correct size</li> </ul>
4. Crimp location too close to closed end of ferrule	<ul style="list-style-type: none"> <li>• Ferrule not inserted far enough into crimper</li> </ul>	<ul style="list-style-type: none"> <li>• Use locator flag to properly locate ferrule position</li> </ul>
5. Crimp location too close to hose	<ul style="list-style-type: none"> <li>• Ferrule inserted too far into crimper (past locator flag)</li> </ul>	<ul style="list-style-type: none"> <li>• Use locator flag to properly locate ferrule position</li> </ul>
6. Crimped fitting leaks when tested with soap bubbles	<ul style="list-style-type: none"> <li>• Air trapped in the hose during manufacture</li> <li>• Insufficient crimp</li> <li>• Hose wall thickness is under size (see chart)</li> <li>• Fitting is defective</li> </ul>	<ul style="list-style-type: none"> <li>• Recheck after system has been charged for one hour – air will bleed out of the hose</li> <li>• Check crimp diameter</li> <li>• Recrimp with .030 under size die</li> <li>• Replace fitting/recrimp</li> </ul>
7. Crimped fitting leaks when tested with electronic leak detector	<ul style="list-style-type: none"> <li>• Insufficient crimp</li> <li>• Hose wall thickness</li> </ul>	<ul style="list-style-type: none"> <li>• Check crimp diameter</li> <li>• Recrimp with .030</li> </ul>

# Equipment

## T-475-1 Crimping Procedure

### T-475-1 Crimping Procedure



### Nominal Crimp Diameter Measurement

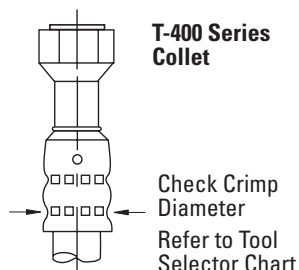
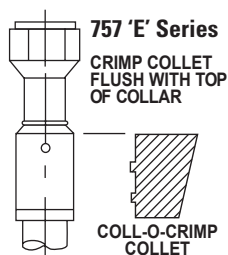
Measuring crimp diameters should be a part of the normal hose assembly procedure. To insure a proper crimp diameter reading, follow these steps.

1. Measure the diameter in the middle of crimped portion of the hose end.
2. Place the caliper in a position to allow a measurement across the pressed (flat) portion of the crimp.

### Note:

When using T-475 system, the bubble style crimp will have three annular rings compared to two when crimped with the T-400 series collets.

### Coll-O-Crimp Crimping Procedure



### Nominal Crimp Diameter Measurement

Measuring crimp diameters should be a part of the normal hose assembly procedure. To insure a proper crimp diameter reading, follow these steps.

1. Measure the diameter in the middle of crimped portion of the hose end.
2. Place the caliper in a position to allow a measurement across the pressed (flat) portion of the crimp.

### Note:

When using T-400 C-O-C system, the bubble style crimp will have two annular rings compared to three when crimped with the T-475 die set.

### 757 Hose Ends

Listed to the right are certain 757 style hose ends that require the use of designated Coll-O-Crimp systems. As noted, removal of the protective cap covering on the charge port may be necessary.

CATALOG NUMBER	HOSE END DESCRIPTION	T-460, T-400, T-407	T-420	T-410, T-440	T-462 T-465	T-480
75708E-Z99	-8, 90deg, w/Charge Port	YES/WC	YES/WC	YES/WC	YES/WC	YES/WC
75710E-Z01	-10, 90deg, w/Charge Port	YES/WC	NO	YES/WC	YES/WC	YES/WC
75712E-Z01	-12, 90deg, w/Charge Port	YES/WC	NO	YES/WC	YES/WC	YES/WC
75706E-Y36	Splicer, -6 to -6	YES	YES	YES	YES	YES
75708E-Y38	Splicer, -8 to -8	YES	YES	YES	YES	YES
75710E-Y40	Splicer, -10 to -10	NO	YES	YES	YES	YES
75712E-Y41	Splicer, -12 to -12	NO	YES	YES	NO	YES
75706E-Y38	Splicer, -6 to -8	YES	YES	YES	YES	YES
75708E-Y40	Splicer, -8 to -12	YES	YES	YES	YES	YES
75710E-Y41	Splicer, -10 to -12	NO	YES	YES	NO	YES
75706E-Y47	Splicer, -6 to -6 w/Charge Port	NO	YES	YES	NO	YES
75708E-Y48	Splicer, -8 to -8 w/Charge Port	NO	YES	YES	NO	YES
75710E-Y49	Splicer, -10 to -10 w/Charge Port	NO	YES	YES	NO	YES
75712E-Y50	Splicer, -12 to -12 w/Charge Port	NO	YES	YES	NO	NO

WOC indicates without protective cap.  
WC indicates with protective cap.



# Equipment

## Coll-O-Crimp Portable T-465

### Portable Coll-O-Crimp



The Portable Coll-O-Crimp is a completely PORTABLE hose assembly system. NO ELECTRICAL POWER SOURCE IS NEEDED. Hand pump powered, lightweight, vise or stand mounted, this crimper is ideal for your portable crimping needs.

**Capacity:** 3/16" I.D. 1 fiber braid through 1-3/8" I.D. 1 wire hose and 1-1/4" 2 wire hose

**Mounting:** Vise/Stand

**Size:** 12-1/2" high, 8-1/2" wide, 5-1/2" deep

**Weight:** 31 lbs.

The vise bracket, die ring, pusher, decal and instruction kit are components of the T-465 Portable Coll-O-Crimp Press.

**Pump Required** (sold separately): T-460-2

**T-465 • Portable Coll-O-Crimp Press ONLY**

### T-465-HP • Portable Coll-O-Crimp Package

Includes one each of the following:

**CATALOG****NUMBER DESCRIPTION**

T-465	Portable Coll-O-Crimp Press
T-460-2	Hand Pump (10,000 PSI)
T-450-3	Quick Disconnect Hose Assembly

For replacement pump see pages 395-397.

### T-465 HPU • Portable Coll-O-Crimp Package

Includes one each of the following:

**CATALOG****NUMBER DESCRIPTION**

T-465-HP	Portable Coll-O-Crimp Package
T-400-2C	'U' Series Collet – 1/4"
T-400-3C	'U' Series Collet – 3/8"
T-400-4C	'U' Series Collet – 1/2"
T-400-10	Black Spacer Ring
T-400-62	Yellow Spacer Ring

### T-465-HP80 • Portable Coll-O-Crimp Package

Includes one each of the following:

**CATALOG****NUMBER DESCRIPTION**

T-465-HP	See above for contents.
T-80	Coll-O-Cut Portable Saw

### T-465 HPU80 • Portable Coll-O-Crimp Package

Includes one each of the following:

**CATALOG****NUMBER DESCRIPTION**

T-465-HPU	See above for contents.
T-80	Coll-O-Cut Portable Saw



Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

**CAUTION**

Use T-460-2 10,000 PSI hand pump only.

**CAUTION**

The Coll-O-Crimp power source has the pressure relief valve set at 10,000 PSI. Damage to the press will result if higher pressures are used and warranty will be voided.

Reference pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps.

Refer to safety information regarding Coll-O-Crimp crimping procedures on page 370.

# Equipment

## Coll-O-Crimp Portable T-465

### T-450-C • Portable Coll-O-Crimp Stand



The T-450-C Stand is designed specifically for your Portable Coll-O-Crimp T-465 Press. This stand allows you to use your press on a work bench or other flat surface without the need of a vise. Simply bolt the press onto the stand with the supplied bolts, and you're ready to make Coll-O-Crimp Hose Assemblies.

Refer below for repair and replacement items.

### T-465-TB • Portable Coll-O-Crimp Tool Boxes



The T-465-TB tool boxes feature convenient press, pump and collet storage while offering easy mobility of your hose assembly equipment. Supplied as a set, the T-465-TB tool boxes are an excellent addition to the portable Coll-O-Crimp System.

Refer below for repair and replacement items.

#### Includes one each:

#### CATALOG NUMBER DESCRIPTION

T-460-10B	Small Tool Box
Stores the T-465 and spacer rings. 15" x 9" x 8".	

T-460-10BB	Large Tool Box
Stores the T-460-2 and collets. 25" x 10" x 8".	

### T-450/T-465 Portable Coll-O-Crimp Repair and Replacement Items

#### CATALOG NUMBER DESCRIPTION

T-450-D1	Spacer Ring Selector Decal for Nylon Hose (H009, H209, H243, H435 and H436)
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T-450-P	Pusher
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T-450-Q	Quick Disconnect Coupling
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T-450K	Pusher and Retainer Plate Repair Kit.
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Includes: T-450B	Pusher bolt (1)
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T-450R	Retainer plate (1)
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T-450S	Retainer plate screw (2)
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W-EQCR-TE011-E	Shroud Decal
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Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

APPLICATION  
DATA

LOW & MEDIUM  
PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES &  
ASM'BL Y INSTRUCTIONS

ADAPTERS & TUBE  
HOSE ENDS

HOSE ASSEMBLY  
EQUIPMENT

TECHNICAL DATA

# Equipment

## T-465-1 Crimping Procedure

### ⚠ WARNING

You must hold the hose assembly in place from below throughout the crimping operation. Do not place fingers or hands at the crimping point during operation. Failure to follow this procedure could result in serious bodily injury.



1. Clamp the crimper into a vise or mount to a work bench using the mounting bracket.

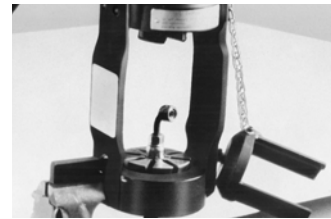
#### Note:

Lubricate the tapered cone seat with T-400-G grease or equivalent before any crimping is completed. Continued periodic lubrication is necessary.



2. Select proper Coll-O-Crimp hose and end fitting. Insert hose into end fitting, hose is bottomed in end fitting.

3. Remove pusher and insert proper size collet halves. Refer to crimp bulletin W-HOOV-TM001-E1.



4. Insert hose assembly from below between the collet halves. Align the hose end with the top of the collet in the proper location.



5. Refer to crimp bulletin W-HOOV-TM001-E1 for proper spacer ring. Place appropriate spacer ring, with the proper orientation, on top of collet. Hold uncrimped hose assembly in place throughout crimping operation.



6. Replace pusher by hanging it from ramplate with bolt on top. Slide it back for centering. Close valve on hand pump and start pumping to crimp.



7. When spacer ring contacts die ring, the crimp is complete. Open valve on hand pump. Allow the ram and pusher to retract.
8. Remove pusher and spacer ring. Remove crimped assembly from below through the collet halves. Visually inspect the crimped end.
9. To insure a proper crimp has been completed, measure the nominal crimp diameter and verify the proper crimp length and crimp location. Refer to crimp bulletin W-HOOV-TM001-E1.

# Equipment

## Coll-O-Crimp Portable T-464

**!** Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

### T-464 • Portable Coll-O-Crimp



For T-460 Tool Box see page 401.

Refer to pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps.

Refer to safety information regarding Coll-O-Crimp crimping procedures on page 372.

The T-460 is a completely portable hose assembly system. Lightweight, hand pump powered, and complete with a self-supporting base, this crimping press features layback positioning up to a 45° angle.

**Capacity:** 3/16" I.D. 1 fiber braid through 1-3/8" I.D. 1 wire hose and 1-1/4" 2 wire hose.

**Mounting:** Free standing base

**Size:** 15" high, 14" wide, 11-1/4" deep

**Weight:** 62 lbs.

### T-464 • Portable Coll-O-Crimp Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-460	Portable Coll-O-Crimp Press, Hand Pump & Hose Assembly Kit, W-EQCR-TM008-E Instructions
T-400-2C	'U' Series Collet – 1/4"
T-400-3C	'U' Series Collet – 3/8"
T-400-4C	'U' Series Collet – 1/2"
T-400-10	Black Spacer Ring
T-400-62	Yellow Spacer Ring

### Repair and Replacement Items

CATALOG NUMBER	DESCRIPTION	CATALOG NUMBER	DESCRIPTION
W-EQCR-TM008-E	Instructions	T-460-P	Pusher
T-460-SPR	Slide Pull Rod	T-460-SF	Slide Flange
T-460-16	Hose Assembly	T-460-SP	Slide Plate
T-460-2	Hand Pump	T-460-SPK	Slide Pull Knob
W-EQCR-TE009-E	Shroud Decal		

For replacement pump see pages 395-397.

### T-466 • Portable Coll-O-Crimp



For T-462 Tool Box see page 401.

Refer to pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps.

Refer to safety information regarding Coll-O-Crimp crimping procedures on page 372.

This portable Coll-O-Crimp features an air/hydraulic pump making it the ideal system if you have the availability of compressed air in your shop or in the field via a portable compressor.

**Capacity:** 3/16" I.D. 1 fiber braid through 1-3/8" I.D. 1 wire hose and 1-1/4" 2 wire hose.

**Mounting:** Free standing base

**Size:** 15" high, 14" wide, 11-1/4" deep

**Weight:** 62 lbs.

### T-466 • Portable Coll-O-Crimp Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-462	Portable Coll-O-Crimp Press, Air/Hydraulic Pump & Hose Assembly Kit, W-EQCR-TM008-E Instructions
T-400-2C	'U' Series Collet – 1/4"
T-400-3C	'U' Series Collet – 3/8"
T-400-4C	'U' Series Collet – 1/2"
T-400-10	Black Spacer Ring
T-400-62	Yellow Spacer Ring


### Repair and Replacement Items

CATALOG NUMBER	DESCRIPTION	CATALOG NUMBER	DESCRIPTION
W-EQCR-TM008-E	Instructions	T-460-SPK	Slide Pull Knob
T-460-P	Pusher	T-460-SPR	Slide Pull Rod
T-460-SF	Slide Flange	T-462-16	Hose Assembly
T-460-SP	Slide Plate	T-462-V	Regulator only
W-EQCR-TE010-E	Shroud Decal	T-462-2	Air/Hydraulic Pump
T-462-V	Air Regulator Kit		

For replacement pump see pages 395-397.

# Equipment

## T-460 Crimping Procedure

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

### WARNING

You must hold the hose assembly in place from below throughout the crimping operation. Do not place fingers or hands at the crimping point during operation. Failure to follow this procedure could result in serious bodily injury.



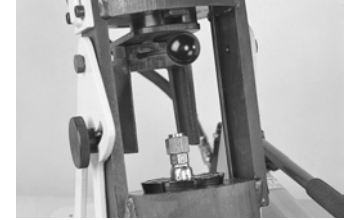
1. Select proper Coll-O-Crimp hose end fitting. Insert hose into end fitting.

**IMPORTANT:** Make sure hose is bottomed in end fitting.

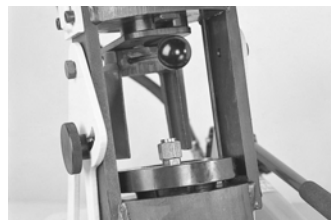


2. Slide pusher to back of machine and insert proper size collet halves. Refer to crimp bulletin W-HOOV-TM001-E1.

**Note:**  
Lubricate tapered cone seat with T-400-G grease or equivalent before any crimping is completed. Continued periodic lubrication is necessary.



3. Insert hose assembly from below between the collet halves. Align the hose end with the top of the collet in the proper location.



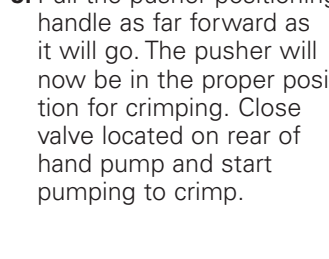
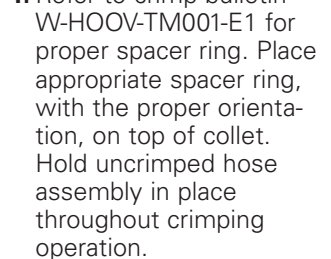
4. Refer to crimp bulletin W-HOOV-TM001-E1 for proper spacer ring. Place appropriate spacer ring, with the proper orientation, on top of collet. Hold uncrimped hose assembly in place throughout crimping operation.



5. Pull the pusher positioning handle as far forward as it will go. The pusher will now be in the proper position for crimping. Close valve located on rear of hand pump and start pumping to crimp.



6. When spacer ring contacts die ring, the crimp is complete. Open control valve on hand pump. Allow the ram and pusher to retract.
7. Slide pusher clear and remove spacer ring. Remove crimped assembly from below through the collet halves. Visually inspect the crimped end.
8. To insure a proper crimp has been completed, measure the nominal crimp diameter and verify the proper crimp length and crimp location. Refer to crimp bulletin W-HOOV-TM001-E1.





# Equipment

## T-462 Crimping Procedure

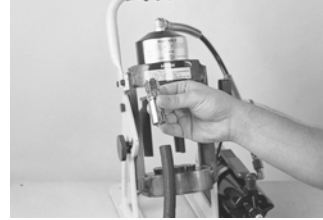
### WARNING

You must hold the hose assembly in place from below throughout the crimping operation. Do not place fingers or hands at the crimping point during operation. Failure to follow this procedure could result in serious bodily injury.



1. Select proper Coll-O-Crimp hose end fitting. Insert hose into end fitting.

**IMPORTANT:** Make sure hose is bottomed in end fitting.



2. Slide pusher to back of machine and insert proper size collet halves. Refer to crimp bulletin W-HOOV-TM001-E1.

**Note:**  
Lubricate tapered cone seat with T-400-G grease or equivalent before any crimping is completed. Continued periodic lubrication is necessary.



3. Insert hose assembly from below between the collet halves. Align the hose end with the top of the collet in the proper location.




4. Refer to crimp bulletin W-HOOV-TM001-E1 for the spacer ring selector chart. Place appropriate spacer ring, with the proper orientation, on top of collet. Hold uncrimped hose assembly in place throughout crimping operation.




5. Pull the pusher positioning handle as far forward as it will go. The pusher will now be in the proper position for crimping. Hold down on activation button and start crimping.



6. When spacer ring contacts die ring, the crimp is complete. Hold the red lever down to allow the pusher to retract.
7. Slide pusher clear and remove spacer ring. Remove crimped assembly from below through the collet halves. Visually inspect the crimped end.
8. To insure a proper crimp has been completed, measure the nominal crimp diameter and verify the proper crimp length and crimp location. Refer to crimp bulletin W-HOOV-TM001-E1.

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

## Equipment

### Coll-O-Crimp Portable T-480

#### T-480-HP • Portable Coll-O-Crimp Press & Hand Pump Package



Make factory-type hose assemblies anywhere-anytime! Versatile and portable, this package offers the ease of use you are looking for in a Coll-O-Crimp hose assembly system. The T-480 Coll-O-Crimp Press packages are offered in four options. Listed below are press/power unit packages.

For cabinets see pages 399-401 (not included).

**Capacity:** 3/16" I.D. 1 fiber braid through 1-1/4" I.D. 6 spiral hose

**Mounting:**  
Free Standing Base

**Size:** 22-1/2" high, 14" long, 10-1/2" wide

**Total Weight:** 112 lbs.

#### T-480-2 Pump Specifications:

**Dimensions:** 7-3/16" high, 21-1/64" long, 4-3/4" wide

**Pressure:** 0-10,000 psi

**Outlet Port Size:** 3/8" NPT

**Hydraulic Oil:** Enerpac

**Reservoir Capacity:**  
55 cu. in.

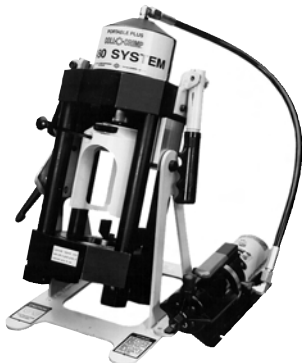
Includes **T-480-68** blue pusher extension ring to be used with **T-480** Portable Coll-O-Crimp and the **T-420** and **ET420** collets only.

For replacement pump see pages 395-397.

Refer to pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps.

Refer to safety information regarding Coll-O-Crimp crimping procedures on page 377.

#### T-480-AH • Portable Coll-O-Crimp Press & Air/Hydraulic Pump Package



**Capacity:** 3/16" I.D. 1 fiber braid through 1-1/4" I.D. 6 spiral hose

**Mounting:** Free Standing Base

**Size:** 22-1/2" high, 14" long, 10-1/2" wide

**Total Weight:** 124 lbs.

#### T-482-2 Pump Specifications:

**Dimensions:** 5" high, 14-5/8" long, 5-5/8" wide

**Pressure:** 0-10,000 psi

**Outlet Port Size:** 3/8" NPT

**Inlet Port:** 1/4" NPT

**Pump Inlet Air Pressure:**  
60-100 psi

**Hydraulic Oil:** Enerpac

**Reservoir Capacity:**  
36 cu. in.

Includes **T-480-68** blue pusher extension ring to be used with **T-480** Portable Coll-O-Crimp and the **T-420** and **ET420** collets only.

**Note:** It is recommended that a filter, regulator, lubricator, and air pressure gauge be installed upstream from the pump. Filter, regulator and lubricator units are not included.


For replacement pump see pages 395-397.

Refer to pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps.

Refer to safety information regarding Coll-O-Crimp crimping procedures on page 377.

# Equipment

## Coll-O-Crimp Portable T-480

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

### T-480-TA Portable Coll-O-Crimp Press & Turbo Air/Hydraulic Pump Package



Reference pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps.

Refer to safety information regarding Coll-O-Crimp crimping procedures on page 377.

**Capacity:** 3/16" I.D. 1 fiber braid through 1-1/4" I.D. 6 spiral hose  
**Mounting:** Free Standing Base  
**Size:** 22-1/2" high, 14" long, 10-1/2" wide  
**Total Weight:** 116 lbs.

**T-480-3 Pump Specifications:**  
**Dimensions:** 8-1/4" high, 12-3/8" long, 8" wide  
**Pressure:** 0-10,000 psi  
**Outlet Port Size:** 3/8" NPT  
**Inlet Port:** 1/4" NPT  
**Pump Inlet Air Pressure:** 40-150 psi  
**Hydraulic Oil:** Enerpac  
**Reservoir Capacity:** 150 cu. in.

Includes **T-480-68** blue pusher extension ring to be used with **T-480** Portable Coll-O-Crimp and the **T-420** and **ET420** collets only.  
**Note:** It is recommended that a filter, regulator, lubricator, and air pressure gauge be installed upstream from the pump. Filter, regulator and lubricator units are not included.  
For replacement pump see pages 395-397.

### T-480-EP Portable Coll-O-Crimp Press & 110v Electric Pump Package



Reference pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps.

Refer to safety information regarding Coll-O-Crimp crimping procedures on page 377.

**Capacity:** 3/16" I.D. 1 fiber braid through 1-1/4" I.D. 6 spiral hose  
**Mounting:** Free Standing Base  
**Size:** 22-1/2" high, 14" long, 10-1/2" wide  
**Total Weight:** 134 lbs.

**T-481-110 Pump Specifications:**  
**Electrical Power Source:** 15amp, 110v grounded 1Ph 50/60HZ  
**Dimensions:** 14-1/4" high, 9-5/8" long, 9-5/8" wide  
**Pressure:** 0-10,000 psi  
**Outlet Port Size:** 3/8" NPT  
**Hydraulic Oil:** Enerpac  
**Reservoir Capacity:** 115.5 cu. in.  
**Flow:** .5 to 1.0 gpm  
**Motor Rating:** 1/2 hp universal, 9 amps at 10,000 psi

Includes **T-480-68** blue pusher extension ring to be used with **T-480** Portable Coll-O-Crimp and the **T-420** and **ET420** collets only.  
For replacement pump see pages 395-397.

APPLICATION  
DATA

LOW & MEDIUM  
PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES &  
ASSEMBLY INSTRUCTIONS

ADAPTERS & TUBE  
HOSE ENDS

HOSE ASSEMBLY  
EQUIPMENT

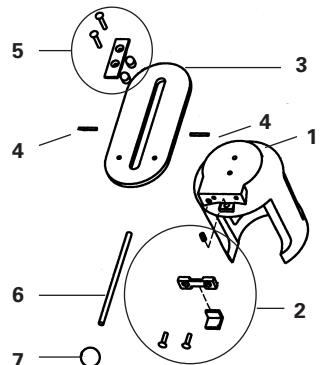
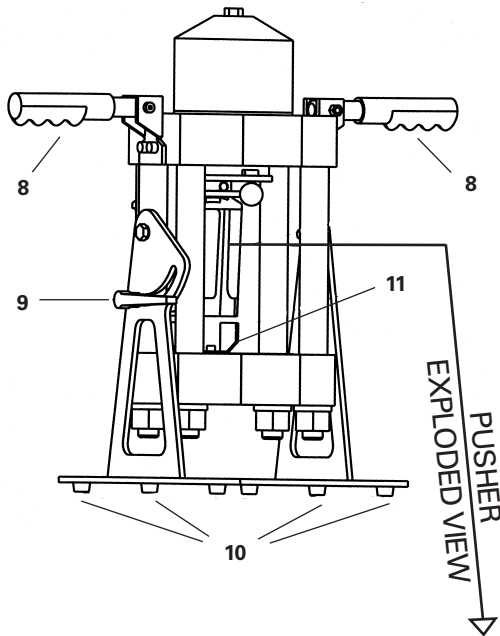
TECHNICAL DATA

# Equipment

## Coll-O-Crimp Portable T-480

**!** Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

### T-480 • Portable Coll-O-Crimp Repair & Replacement Items



ITEM NUMBER	CATALOG NUMBER	DESCRIPTION
1	T-480-P	Pusher
2	T-480-PSK	Pusher Stop Repair Kit (Includes pusher clip, 2 machine screws, pusher stop & spring)
3	T-480-SP	Slider Plate
4	140-05485-01	Roll Pin
5	T-480-SFK	Slide Flange Kit (Includes slide flange, 2 bushings & 2 machine screws)
6	T-480-SPR	Slide Pull Rod
7	T-480-SPK	Slide Pull Knob
8	140-06601	Vinyl Grip
9	T-480-TBK	Tilt Bracket Knob
10	140-06894	Foot Pad
11	T-480-69	Tool Locator Bracket
#	T-480-16	10,000 PSI replacement hose assembly for 480-HP
#	T-480-17	10,000 PSI replacement hose assembly for T-480-TA and T-480-EP
#	T-480-18	10,000 PSI replacement hose assembly for 480-AH
#	140-06906	Hydraulic Quick Coupler used with the T-480-TA and T-480-EP System
#	T-480-3	Turbo Air/Hydraulic replacement pump for T-480-TA System
#	T-481-110	Electric replacement pump for T-480-EP System
#	T-480-2	Hand replacement pump for T-480-HP System
#	T-482-2	Air/Hydraulic replacement pump for T-480-AH System
#	W-EQCR-TE012-E	Shroud Decal
#	W-EQCR-TM013-E	Set-up & Operating Guide for T-480 System

# Item not illustrated in parts breakdown.

# Equipment

## Portable T-480 Crimping Procedure

### Note:

Lubricate the die ring with T-400-G grease or equivalent before any crimping is completed. Continued periodic lubrication is necessary.



**T-480-HP**  
Portable Coll-O-Crimp Press & Hand Pump



**T-480-AH**  
Portable Coll-O-Crimp Press & Air/Hydraulic Pump



**T-480-TA**  
Portable Coll-O-Crimp Press & Turbo Air/Hydraulic Pump



**T-480-EP**  
Portable Coll-O-Crimp Press & 110v Electric Pump



1. Attach air supply to pump.



1a. Connect hose assembly to pump and crimper.

1b. Attach air supply to pump.

1c. Vent pump by opening vent screw 1-2 turns.



1a. Connect hose assembly to pump and crimper. Check all connections to be sure they are tight and leak free.

1b. Open the pump vent plug by turning it 1-2 turns.

- 1a Turn vent/ fill cap to VENT position to vent pump reservoir.
- 1b. Close release valve on pump.



2. Release the pusher clip and slide pusher back.

3. Select the proper Weatherhead hose, end fittings and tooling. Refer to crimp bulletin W-HOOV-TM001-E1. Insert the hose into the end fitting.

**IMPORTANT:** Make sure hose is bottomed in end fitting.



4. Loosen knob and tilt press as necessary. Insert one end of hose assembly from below the base plate and between the collet halves. Align the hose end with the top of the collet in the proper location.



5. Holding uncrimped hose assembly in place, position the correct spacer ring on top of collet.

6. Slide pusher forward, making sure pusher clip has locked.



7. Turn pump switch, located on side of shroud, to "ON" position. Press ADVANCE on pendant switch and hold until the spacer ring contacts the base plate, indicating that the crimp is complete. Press RETRACT on the pendant switch and pusher will retract. Activate the pump and complete the crimp cycle until the spacer ring contacts the base ring. Remove the spacer ring from top of collet and then the crimped hose assembly from below.

**Note:** Visually inspect the crimped end. Measure the nominal crimp diameter and verify the proper crimp length and crimp location.

### WARNING

You must hold the hose assembly in place from below throughout the crimping operation. Do not place fingers or hands at the crimping point during operation. Failure to follow this procedure could result in serious bodily injury.

### For T-400 Tooling

#### Note:

The **T-480-68** blue extension ring is NOT used with T-400 tooling.

8. When crimping with Coll-O-Crimp I tooling the procedure is the same except;

- a. Insert the **T-420-25** adapter die ring into the base plate die cavity.
- b. Periodically lubricate the T-420-25 adapter die ring and base plate die cavity.

c. Use T-400 and ET400 collets and spacer rings.

d. Align the hose end with the top of the collet in the proper location.



# Equipment

## Portable T-480 Operating

### Insertion Depth

Push hose end on hose until hose is bottomed in end fitting. To insure that hose is bottomed in collar, mark the insertion depth on the hose before inserting it into the hose end.

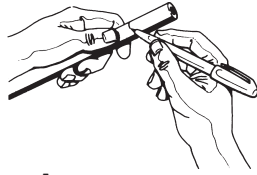


Figure A

HOSE I.D.	'U' SERIES RUBBER	'E' SERIES NYLON/	069 'E' SERIES TRUCK HOSE	757 'E' SERIES REFRIGERANT HOSE
3/16	—	7/8	1	—
1/4	1-1/2	7/8	1	—
5/16	—	15/16	1-3/32	1
3/8	1-7/16	15/16	—	—
13/32	—	—	1-3/32	1-1/8
1/2	1-7/16	1-1/16	1-3/32	1-3/32
5/8	1-15/16	—	1-5/16	1-3/32
3/4	2-1/8	1-1/4	—	—
7/8	—	—	1-5/16	—
1	2-3/16	1-11/32	—	—
1-1/8	—	—	1-3/8	—

### Nominal Crimp Diameter Measurement

Measuring crimp diameters should be a part of the normal hose assembly procedure. To insure a proper crimp diameter reading, follow these steps:

1. Measure the diameter in the middle of crimped portion of the hose end.
2. Place the caliper in a position to allow a measurement across the pressed (flat) portion of the crimp.
3. Refer to crimp bulletin W-HOOV-TM001-E1 for nominal crimp diameter.

#### Note:

In the larger sizes, calipers may be used; however, in the smaller sizes, and in the 'E' Series thermoplastic hose ends, a point micrometer will provide an accurate reading.

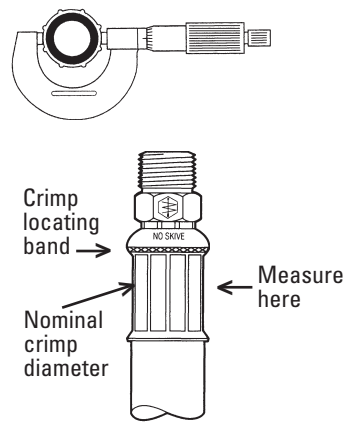


Figure C

### Coll-O-Crimp Spacer Ring

Typical spacer ring illustrating both sides of ring.

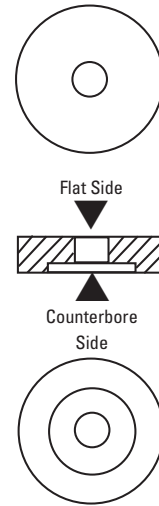


Figure B

### 757 'E' Series Hose End

757 'E' Series hose ends must be positioned with top of collar level with top of collet.

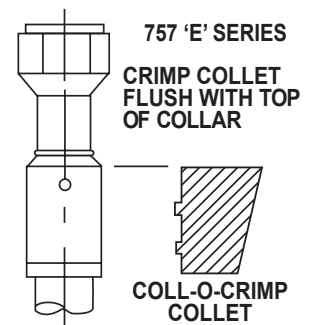


Figure D

# Equipment

## Coll-O-Crimp T-400

### Coll-O-Crimp T-400



Packages continued on next page.  
Refer to pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps.

**Note:**

25 ton (T-400-1 is C-O-C press only)



Refer to safety information regarding Coll-O-Crimp crimping procedures on page 381.



**CAUTION**

The Coll-O-Crimp power source has the pressure relief valve set at 4000 to 4200 PSI. Damage to the press will result if higher pressures are used and warranty may be voided.

The Coll-O-Crimp I is the time-proven 'Mini-Factory' that you can easily set up in your own shop. Fast, easy, compact and various power sources available make this crimper versatile for even the smallest of workshops.

**Capacity:** 3/16" I.D. 1 fiber braid through 1-3/8" I.D. 1 wire hose and 1-1/4" I.D. 2 wire hose.

**Mounting:** Bench; FH-135X or C40X Cabinet.

For cabinets see pages 399-401.

**Size:** 16-1/4" high, 8" wide, 21-3/4" deep

**Weight:** 113 lbs.

### T-400 • Coll-O-Crimp I Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-1	Coll-O-Crimp Press, T-400-BB Switch, and T-400-M Instructions
T-400-2C	'U' Series Collet – 1/4"
T-400-3C	'U' Series Collet – 3/8"
T-400-4C	'U' Series Collet – 1/2"
T-400-5C	'U' Series Collet – 3/4"
T-400-6C	'U' Series Collet – 1"
T-400-10	Spacer Ring – Black
T-400-11	Spacer Ring – Silver
T-400-62	Spacer Ring – Yellow
T-400-16**	36" T-421U Pump to Press Hose Assembly
T-400-8	Die Ring

Pump Required (sold separately): T-421U, T421U-110, T-402-2 or T-403-2 see pages 395-397.

\*\*Not supplied when ordering a T-402 or T-403 package.

### T-400 Coll-O-Crimp I Press/Pump Packages

The T-400 Coll-O-Crimp Press and tooling package can be supplied with a variety of power units for your particular needs. Listed below are press/power unit packages. For cabinets see pages 399-401.

### T-401 • C-O-C I & 220v Electric Pump Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400	Press and tooling package
T-421U	Electric Pump (220v, 1 phase)

### T-401-110 • C-O-C I & 110v Electric Pump Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400	Press and tooling package
T-421U-110	Electric Pump (110v, 1 phase)

### T-402 • C-O-C I & Air/Hydraulic Pump Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400	Press and tooling package/Less T-400-16
T-402-2	Air/Hydraulic Pump
T-400-18	108" Hose assembly and fittings



Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

APPLICATION  
DATA

LOW & MEDIUM  
PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES &  
ASSEMBLY INSTRUCTIONS

ADAPTERS & TUBE  
HOSE ENDS

HOSE ASSEMBLY  
EQUIPMENT

TECHNICAL DATA

## Equipment

Coll-O-Crimp  
T-400

Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

Packages continued from previous page.



Refer to safety information regarding Coll-O-Crimp crimping procedures on page 381.

### T-400 Coll-O-Crimp I Press/Pump Packages Continued

The T-400 Coll-O-Crimp I Press and tooling package can be supplied with a variety of power units for your particular needs. Listed below are press/power unit packages. For cabinets see pages 399-401.

### T-403 • C-O-C I & Hand Pump Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400	Press and tooling package/Less T-400-16
T-403-2	Hand Pump
T-400-19	60" hose assembly and fittings

### T-414 • C-O-C I & 12v Electric Pump Package

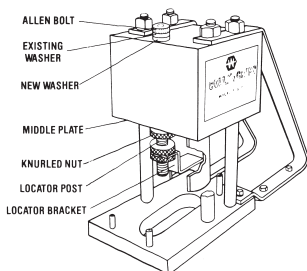
Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400	Press and tooling package
T-412	12 volt DC Electric Pump

**Note:** 25 ton (T-400-1 is C-O-C press only)

### T-400-9 • Crimp Locator

The T-400-9 allows you to make large volumes of hose assemblies by automatically aligning hose ends in proper crimp location.



### Installation Procedure

1. Remove the front Allen bolt using an Allen wrench or tool provided with kit.
2. Add the washer provided with the kit to existing washer as shown and torque the bolt down to 75 ft.-lbs.
3. Attach the locator post of the pre-assembled locator to the bottom of the middle plate and lock it in place with one of the knurled nuts.

4. Align the dimples on the first assembly with top of collet to locate the crimp. Drop the locator bracket down to rest on top of the hose end. Lock the bracket in position with remaining two knurled nuts. The locator now can be used, instead of dimples, to locate crimp accurately and consistently on the remaining hose ends of the same size and type.

**Note:**

Remove locator assembly when crimping bent tube ends.

### CAUTION

The Coll-O-Crimp power source has the pressure relief valve set at 4000 to 4200 PSI. Damage to the press will result if higher pressures are used and warranty may be voided.

### T-400-1 Coll-O-Crimp I Repair and Replacement Items

CATALOG NUMBER	DESCRIPTION
T-400-B	Pusher Bolt
T-400-BB	Switch to interface T400-1 crimper to T421U pump or T-421U-110 pump
T-400-G	1.5 oz. Tube High Efficiency * Grease
T-400-K1	Seal Replacement Kit for T-400-1 Press
W-EQCR-TD002-E	Shroud Decal
T-400-M	Instructions for T-400-1
T-400-S	Replacement press shroud with Decals.
T-400-8	Die Ring
T-400-13	Replacement collet cage for T-400 'U' Series collets, 1/4" and 3/8" sizes only, and 229 "P" Series collets, all sizes, with a 'C' suffix (2 required for each collet).
T-400-14	Replacement collet cage for T-400 'U' Series collets with a 'C' suffix, 1/2" through 1" only, (2 required for each collet).
T-400-90	Replacement collet cage for T-400 'E', 069 'E', and 'E' Series collets with a 'C' suffix (2 required for each collet).
T-432-15	Pusher

# Equipment

## Coll-O-Crimp T-400 Crimping Procedure

### WARNING

You must hold the hose assembly in place from below throughout the crimping operation. Do not place fingers or hands at the crimping point during operation. Failure to follow this procedure could result in serious bodily injury.

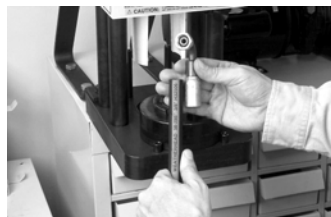
### Note:

Lubricate the die ring with T-400-G grease or equivalent before any crimping is completed. Continued periodic lubrication is necessary.



1. Place die ring **T-400-8** on base plate against front stops.

2. Insert properly-sized matched collet halves in the die ring. Refer to crimp bulletin W-HOOV-TM001-E1.



3. Place the correct Coll-O-Crimp hose end on hose.

**IMPORTANT:** Make sure hose is bottomed in end fitting.



4. Insert hose assembly from below between the collet halves. Align the hose end with the top of the collet in the proper location.



5. Place spacer ring with proper orientation on collet with uncrimped hose assembly held in place. Refer to crimp bulletin W-HOOV-TM001-E1.

6. Slide entire assembly back against rear locating stops.



7. Activate pump to crimp hose end to hose. When spacer ring contacts die ring, crimping is complete. Release the electric switch to retract pusher. Slide entire assembly forward and remove spacer ring.



8. Remove factory-quality crimped hose assembly and visually inspect the crimped end. Verify the proper crimp length and crimp location.

9. To insure a proper crimp has been completed, measure the nominal crimp diameter. Refer to crimp bulletin W-HOOV-TM001-E1 for procedure and crimp diameters.

# Equipment

## Coll-O-Crimp Super IT-420



The Coll-O-Crimp Super I is a versatile machine ideal for your shop, factory, construction, and mine locations. Big capacity combined with lever activated crimping gives you wide coverage and a quick and simple way to make factory-quality hose assemblies.

**Capacity:** 3/16" I.D. 1 fiber braid through 1-1/4" 6 spiral hose; for hoses other than

4 and 6 spiral, conversion tooling is required. See page 398 for details.

### Mounting:

Bench or C-40X cabinet.


See pages 296-299 for cabinet (not included).

**Size:** 22" high, 10" wide, 20-1/2" deep

**Weight:** 210 lbs.

### Pump Required (sold separately):

T-421U or T-421U-110

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

### T-420-1 • Coll-O-Crimp Super I Press ONLY Includes W-EQCR-TM004-E Instructions

### CAUTION

The Coll-O-Crimp power source has the pressure relief valve set at 4000 to 4200 PSI. Damage to the press will result if higher pressures are used and warranty will be voided.

### T-420-N • Coll-O-Crimp Super I Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-420-1	Coll-O-Crimp Super I Press and T-420-M Instructions
T-421U	220v Electric Pump
T-400-2C	'U' Series Collet- 1/4"
T-400-3C	'U' Series Collet- 3/8"
T-400-4C	'U' Series Collet- 1/2"
T-400-5C	'U' Series Collet- 3/4"
T-400-6C	'U' Series Collet- 1"
T-400-10	Spacer Ring- Black
T-400-11	Spacer Ring- Silver
T-400-62	Spacer Ring Yellow
T-410-22	36" Pump to Press Hose Assembly
T-420-25	Adapter Ring for T-400 Series Collets
T-420-4CN	430 'U' Series Collet- 1/2"
T-420-5CN	430 'U' Series Collet- 3/4"
T-420-6CN	430 'U' Series Collet- 1"
T-420-7CN	430 'U' Series Collet- 1-1/4"

### T-420N-110 • Coll-O-Crimp Super I Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-420-1	Coll-O-Crimp Super I Press and T-420-M Instructions
T-421U-110	110v Electric Pump
T-400-2C	'U' Series Collet- 1/4"
T-400-3C	'U' Series Collet- 3/8"
T-400-4C	'U' Series Collet- 1/2"
T-400-5C	'U' Series Collet- 3/4"
T-400-6C	'U' Series Collet- 1"
T-400-62	Spacer Ring- Yellow
T-400-10	Spacer Ring- Black
T-400-11	Spacer Ring- Silver
T-410-22	36" Pump to Press Hose Assembly
T-420-25	Adapter Ring for T-400 Series Collets
T-420-4CN	430 'U' Series Collet- 1/2"
T-420-5CN	430 'U' Series Collet- 3/4"
T-420-6CN	430 'U' Series Collet- 1"
T-420-7CN	430 'U' Series Collet- 1-1/4"

### Coll-O-Crimp Super I Repair and Replacement Items

CATALOG NUMBER	DESCRIPTION
T-420-1M	Micro-Switch for T-420-1 Press
T-420-28	Tool Locator Bracket
T-420-B	Pusher Bolt and Washers
W-EQCR-TE006-E	Shroud Decal
T-420-H	Handle
T-420-L	Light Bulb
T-420-LA	Light Assembly
T-420-LS	Light Switch
W-EQCR-TM004-E	Instructions for T-420-1
T-420-P	Pusher Set (2) with Wear Plates and Screws
T-420-S	Press Shroud with Decals
T-420-26	Insert - Base Plate

CATALOG NUMBER	DESCRIPTION
T-420-G	Linkage Assembly
T-420-2R	Rack
T-420-2K	Pinion Shaft Assembly (incl'd T-420-25 and T-420-2G)
T-420-2S	Replacement Pinion Gear Shaft
T-420-2G	Replacement Pinion Gear
T-400-G	1.5 oz. Tube High Efficiency PTFE Grease
T-421U-BC	Breather Cap for T-421U Pump
140-06745	Pusher Wear Plates includes (1) Left and (1) Rt
140-06748	Pusher Wear Plates Screws (1)

See pages 395-397 for replacement pumps. Refer to pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps. Refer to safety information regarding Coll-O-Crimp crimping procedures on pages 384-385.



# Equipment

## Coll-O-Crimp ET4000



The ET4000 is ideal for factory, high performance machine operations, construction and mine locations. This machine offers the capabilities of crimping all of the crimp style hose ends Weatherhead offers. With this coverage, this heavy-duty crimper can handle all of your crimping needs.

### **CAUTION**

The Coll-O-Crimp power source has the pressure relief valve set at 5000 PSI. Damage to the press will result if higher pressures are used and warranty may be voided.

**Capacity:** 3/16" I.D. 1 fiber braid through 2" 6 spiral hose; for hoses other than 4 and 6 spiral, conversion tooling is required. See page 396 for details.

**Mounting:** Bench

**Size:** 29" high, 12" wide, 21" deep

**Weight:** 550 lbs.

**Pump Required (sold separately):** T-441, see page 396.

**!** Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

Reference pages 360-398 for Coll-O-Crimp tooling, tooling packages and pumps.

**Note:**

Seal kits for T-410, T-440 and ET4000 are not sold separately. Crimpers must be sent in and torqued by Weatherhead.

Refer to safety information regarding Coll-O-Crimp crimping procedures on pages 384.

**Note:**

These packages include tooling to crimp H430 hose. For additional tooling order from pages 388-389.

**Note:**

**T-410-25 Adapter Die Ring Required for T-400 and ET400 series collets.**

**Note:**

**ET4000AR-002 Adapter Die Ring required for -20, -24 and -32 size 4SP and 6SP series collets.**

### ET4000-004 • Coll-O-Crimp Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
ET4000-002	ET4000 Press, Operating Instructions and 140-06741 Switch
T-441	220v 2-stage Electric Pump
T-410-22	36" Pump to Press Hose Assembly

### ET4000-006 • Coll-O-Crimp Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
ET4000-004	Press and Pump Package
T-410-4CN	430 'U' Series Collet – 1/2" I.D.
T-410-5CN	430 'U' Series Collet – 3/4" I.D.
T-410-6CN	430 'U' Series Collet – 1" I.D.
T-410-7CN	430 'U' Series Collet – 1-1/4" I.D.
T-410-8N	430 'U' Series Collet – 1-1/2" I.D.
T-410-9N	430 'U' Series Collet – 2" I.D.

### Repair & Replacement Items:

CATALOG NUMBER	DESCRIPTION
T-410-26	Base Plate Insert for T-410-1 Machine
T-410-26R	Base Plate Insert for T-440-1 Machine
ET4000AR-001	Base Plate Insert for ET4000 Machine
T-410-28	Tool Locator Bracket Kit for the T-410-1 and T-440-1 Machine
ET4000TP-0001	Tool Locator Bracket Kit for the ET4000 Machine
T-410-P	Pusher Set for T-410-1, T-440-1 and ET4000 Machines (includes wear plates)
T-410-1M	Microswitch for T-410-1, T-440-1 and ET400 Machine
T-421-FP	4 Prong Female Electrical Outlet
T-400-G	1.5 ox. Tube PTFE Grease
T-410-BB	Pump Switch for T-410-1 Machine
140-06741	Pump Switch for the T-440-1 and ET4000 Machines
ET4000TP-002	Wear Plate Kit for T-410-1, T-440-1 and ET4000 Machines (Includes both halves plus screws)
W-EQCR-TE007-E	Shroud Decal for T-440-1 Machine
W-EQCR-TE014-E	Shroud Decal for ET4000 Machine
W-EQCR-TE010-E	Owner's Manual for T-440-1 Machine
W-EQCR-TE002-E	Owner's Manual for ET4000 Machine

APPLICATION DATA

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES & ASSEMBLY INSTRUCTIONS

ADAPTERS & TUBE HOSE ENDS

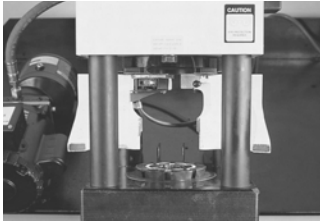
HOSE ASSEMBLY EQUIPMENT

TECHNICAL DATA

# Equipment

## T-420 and ET4000 Crimping Procedure

### T-420 (T-440 Used In Example)

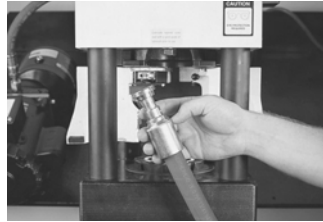


1. Open pusher halves. Select proper size collet for hose type being crimped. Insert collet as shown.

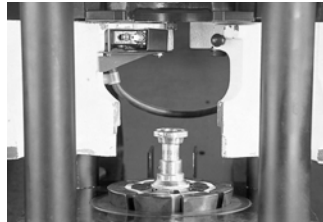
Refer to crimp bulletin W-HOOV-TM001-E1.

#### Note:

Lubricate the die ring with T-400-G grease or equivalent before any crimping is completed. Continued periodic lubrication is necessary.



2. Place proper size Coll-O-Crimp hose end on hose. **IMPORTANT:** Make sure hose is bottomed in end fitting.



3. Insert hose assembly from below, between collet halves. Align the hose end with the top of the collet in the proper location.



4. Pull activating lever down. Pusher halves will close. Continue to pull activating lever down (pump will activate) until pusher contacts the base plate. The crimp is complete. Release activating lever. Pusher will automatically return, and pusher halves will open. Remove hose assembly and measure nominal crimp diameter (see step 6).



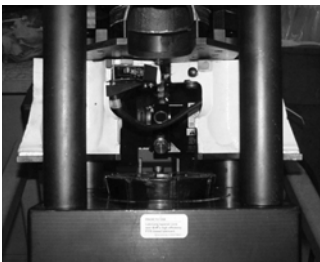
5. To insure a proper crimp has been completed, measure the nominal crimp diameter and verify the proper crimp length and location. Refer to crimp bulletin W-HOOV-TM001-E1 for procedure and crimp diameter.

### WARNING

You must hold the hose assembly in place from below throughout the crimping operation. Do not place fingers or hands at the crimping point during operation. Failure to follow this procedure could result in serious bodily injury.

**!** Procedure when using ET420 or T-420 series collets. Spacer ring may be required, please refer to Crimp Bulletin # W-HOOV-TM001-E1 for tooling specifications.

### ET4000



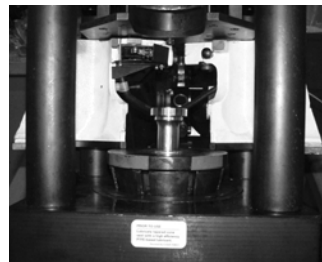
1. OPEN the pusher halves. Select the proper collet assembly for hose type being crimped as referenced in the Crimp Specifications Manual and insert the collet assembly into the base adapter ring.

#### Note:

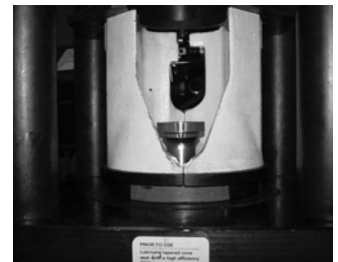
Lubricate the inside of the base adapter ring and external surfaces of the collet assembly with a high-efficiency PTFE-based lubricant.



2. INSERT the hose assembly through the bottom of the base adapter ring and between the two collet assembly halves. Align the fitting with the top of the collet halves as referenced in the Crimp Specifications Manual.




3. PLACE the spacer ring (if applicable) in the appropriate position on top of the collet assembly (either flat-side up or flat-side down as referenced in the Crimp Specifications Manual).



4. CLOSE the pusher halves and begin crimping by activating the pump with turning on the switch. When the pusher halves or spacer ring (if applicable) contacts the base adapter ring, the crimp is complete.
5. RELEASE the switch and the pusher will automatically return. OPEN the pusher halves and remove the crimped hose assembly.
6. Visually inspect the crimp and verify the correct crimp diameter and length.

# Equipment

## T-420 Crimping Procedure

 Procedure when using T-400 and ET4000 series collets. Please refer to Crimp Bulletin # W-HOOV-TM001-E1 for tooling specifications.

APPLICATION  
DATA

LOW & MEDIUM  
PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES &  
ASSEMBLY INSTRUCTIONS

ADAPTERS & TUBE  
HOSE ENDS

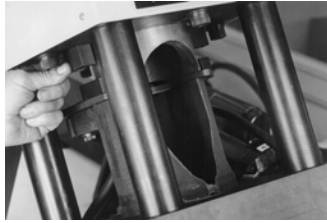
HOSE ASSEMBLY  
EQUIPMENT

TECHNICAL DATA

### WARNING

You must hold the hose assembly in place from below throughout the crimping operation. Do not place fingers or hands at the crimping point during operation. Failure to follow this procedure could result in serious bodily injury.

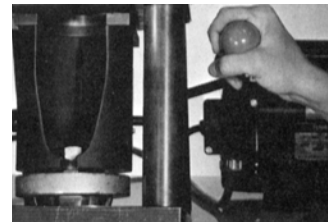
### T-420 Used In Example



1. Hold switch "ON;" As ram starts down, rotate the ram return stops "OUT" from their "IN" position. Release switch. Ram will return to the full up position allowing enough clearance for insertion of required tooling.
2. Open pusher halves and place adapter ring in the base plate cavity. Select proper size collet for hose type and size being crimped. Insert collet halves in adapter ring.
3. Place proper size Coll-O-Crimp hose end on hose.  
**IMPORTANT:** Make sure hose is bottomed in end fitting.

### Note:

Lubricate the die ring with T-400-G grease or equivalent before any crimping is completed. Continued periodic lubrication is necessary.



4. Select proper spacer ring. Reference Spacer Ring Selector Chart located on front of press, or refer to crimp bulletin W-HOOV-TM001-E1. Insert hose assembly from below, between collet halves. Align the hose end with the top of the collet in the proper location.
5. Place with proper orientation the spacer ring on top of collet.
6. Pull activating lever down. Pusher halves will close. Continue to pull activating lever down (pump will activate) until pusher contacts the base plate. The crimp is complete.
- 7b. Release activating lever. Pusher will automatically return and pusher halves will open. Remove factory-crimped hose assembly and inspect the crimp.
8. To insure a proper crimp has been completed, measure the nominal crimp diameter. Refer to crimp bulletin W-HOOV-TM001-E1 for procedure and crimp diameters.

# Equipment

## ET1000 Portable Crimp Machine

### ET1000 • Portable Crimp Machine

#### CAUTION

Refer to safety information regarding hose, hose fittings and assembly equipment compatibility on page 4.

The completely PORTABLE ET1000 crimp machine boasts a broad crimp capability with an ease-of-use that is sure to please hose assemblers. With 3 power source options - air/hydraulic, hand, and electric - this portable machine can travel to the work-site. The machine comes equipped with a stand pre-drilled for mounting to a work-bench or table-top.

The ET1000 Portable Crimp Machine is a mid-size machine positioned between the other two popular portable crimp machines (the T-460 and T-480).



#### ORDERING OPTIONS

ET1000-001	Basic machine (no pump)
ET1000-002	Machine with hand pump*
ET1000-003	Machine with air/hydraulic pump*
ET1000-004	Machine with 110 volt electric pump*

\* Includes hose assembly and fittings to attach pump to machine

**Note:** Collets and spacers not included in kits. Must be ordered separately. See pages 388-394 for part numbers.

**Note:** ET1000AR-001 adapter die ring required to Crimp T-400 and ET400 series collets. Not included in kits and must be ordered separately.

#### Capacity:

Coll-O-Crimp U Series hose ends and applicable hoses in sizes 1/4" through 1-1/4"

Coll-O-Crimp Z Series hose ends and applicable hoses in sizes 1/4" through 1-1/4"

Coll-O-Crimp 430U Series hose ends and applicable hoses in sizes 3/8" through 3/4"

#### Mounting:

Work bench or table top

#### Weight:

70 lbs. (less pump)

#### Tooling:

Standard Coll-O-Crimp collets and spacer rings. Uses the same tooling as the T-420 machine.

#### Pump Kits:

(pump kits contain hose assembly and fittings to attach pump to machine)

ET1000PK-001,  
Hand Pump

ET1000PK-002,  
Air/Hydraulic Pump

ET1000PK-003,  
110 Volt Electric Pump

#### Pump Only:

(does not include hose assembly or fittings)

T-480-2,  
Hand Pump

T-482-2,  
Air/Hydraulic Pump

T-481-110,  
110 Volt Electric Pump

#### REPAIR AND REPLACEMENT ITEMS:

ET1000C-0001	Stand
ET1000C-0006	Pusher
ET1000AR-001	Adapter Ring
T-400-G	Lubrication

Additional repair and replacement items are available. Refer to the owner's manual or contact Eaton for information.



# Equipment

## ET1000 Crimping Procedures

### Note:

See Crimp Bulletin #W-HOOV-TM001-E1 for tooling specifications.

### Crimping Procedures



#### Step 1:

Slide the pusher to the back position.

Using the Collet/Spacer Ring Selector Chart, select the proper collet assembly and spacer ring.

#### Step 2A (for T-420 and ET420 Series Collets):

Lubricate the inside cone of the die ring and external surfaces of the collet assembly with a high-efficiency PTFE-based lubricant (T-400-G).

Insert the collet assembly into the base die ring.

#### Step 2B (for T-400 and ET400 Series Collets):

Lubricate the inside cone of the base die ring and the outside cone of the die ring adapter plate.

Place the die ring adapter plate into the base die ring.

Lubricate the external surfaces of collet assembly halves with a high-efficiency PTFE-based lubricant.

Insert the collet assembly into the die ring adapter plate.



#### Step 3:

Insert the hose assembly through the bottom of the base die ring and between the two collet assembly halves. Align the fitting with the top of the collet halves as referenced on the Collet/Spacer Ring Selector Chart.



#### Step 4:

Place the spacer ring in the appropriate position on top of the collet assembly (either flat-side up or flat-side down as referenced in the Collet/Spacer Ring Selector Chart).



#### Step 5:

Pull the pusher forward into the detent holding position with the pusher positioning handle.

#### Step 6:

Begin crimping by actuating the pump. **When the spacer ring bottoms out against the base die ring, the crimping is complete.**

#### Note:

Visually inspect the crimp and verify the correct crimp diameter and length.



# Equipment

## WeatherGRIP Tooling

### ET400TP-0001 Crimp Kit for T-400 Crimper

(For Braided Hose sizes -4 thru 16 one wire and two wire)

COLLET	SPACER RING P/N	SPACER RING COLOR
ET400DC-M150S	ET1000SR-M100A	Purple
ET400DC-M195S	T-400-62	Yellow
ET400DC-M230S	T-400-46R	Black/Tan
ET400DC-M245S	ET1000SR-M190D	Lt. Green
ET400DC-M295S	T-400-37	Green
ET400DC-M375S	T-400-10	Black
	ET400SR-002	Black/Green
	T-400-48R	Black/Orange
	ET400SR-003	Black/Purple
	T-400-49R	Black/Silver
	T-400-112	Tan

### ET420TP-0001 Crimp Kit for T-420 Crimper

(For Braided Hose sizes -4 thru 16 one wire; and -4 thru -20 two wire)

COLLET	SPACER RING P/N	SPACER RING COLOR
ET400DC-M150S	ET1000SR-M100A	Purple
ET400DC-M195S	T-400-62	Yellow
ET400DC-M230S	T-400-46R	Black/Tan
T-420-86C	ET1000SR-M190D	Lt. Green
ET420DC-M380S	T-400-37	Green
	T-400-10	Black
	T-400-112	Tan
	ET420SR-M495A	Gray
	ET420SR-M255A	Black/Silver
	T-420-29	Orange
	T-420-82R	Black/Blue

### ET440TP-0001 Crimp Kit for T-440 Crimper

(For Braided Hose sizes -4 thru 16 (no -10) for one wire and two wire)

COLLET	SPACER RING P/N	SPACER RING COLOR
ET400DC-M150S	ET4000SR-M100A	Purple
ET400DC-M195S	T-410-41	Yellow
ET400DC-M230S	T-440-78R	Black/Tan
T-440-86C	ET4000SR-M190D	Lt. Green
ET4000DC-M380S	T-410-39	Green
	T-410-10	Black
	T-410-42	Tan
	ET4000SR-M405A	Gray
	ET4000SR-M215A	Black/Silver
	T-410-93	Orange
	T-440-82R	Black/Blue

**Note:**

See page 393 for individual collet part numbers.



Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

### ET460TP-0001 Crimp Kit for T-460 Series Crimper

(For Braided Hose sizes -4 thru 8 one wire)

COLLET	SPACER RING P/N	SPACER RING COLOR
ET400DC-M150S	ET1000SR-M100A	Purple
ET400DC-M195S	T-400-62	Yellow
ET400DC-M230S	T-400-46R	Black/Tan
	ET1000SR-M190D	Lt. Green
	T-400-37	Green
	T-400-10	Black
	T-400-112	Tan

### ET1000TP-0001 Crimp Kit for ET1000 Crimper

(For Braided Hose sizes -4 thru 20 for one wire and two wire)

COLLET	SPACER RING P/N	SPACER RING COLOR
ET400DC-M150S	ET1000SR-M100A	Purple
ET400DC-M195S	T-400-62	Yellow
ET400DC-M230S	T-400-46R	Black/Tan
T-420-86C	ET1000SR-M190D	Lt. Green
ET420DC-M380S	T-400-37	Green
	T-400-10	Black
	T-400-112	Tan
<b>PUSHER EXTENTION</b>	ET420SR-M495A	Gray
ET1000C-0012	ET420SR-M255A	Black/Silver
	T-420-29	Orange
	T-420-82R	Black/Blue
	T-480-68	Blue

### ET480TP-0001 Crimp Kit for T-480 Crimper

(For Braided Hose sizes -4 thru 16 (no -10) for one wire and two wire)


COLLET	SPACER RING P/N	SPACER RING COLOR
ET400DC-M150S	ET1000SR-M100A	Purple
ET400DC-M195S	T-400-62	Yellow
ET400DC-M230S	T-400-46R	Black/Tan
T-420-86C	ET1000SR-M190D	Lt. Green
ET420DC-M380S	T-400-37	Green
	T-400-10	Black
	T-400-112	Tan
	ET420SR-M495A	Gray
	ET420SR-M255A	Black/Silver
	T-420-29	Orange
	T-420-82R	Black/Blue

# Equipment

## WeatherGRIP Tooling



**Note:**  
See Crimp Bulletin #W-HOOV-TM001-E1 for proper Collet selection for hose style and size desired.

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

APPLICATION  
DATA

LOW & MEDIUM  
PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES &  
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ADAPTERS & TUBE  
HOSE ENDS

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EQUIPMENT

TECHNICAL DATA

### 'Z' Series Collets

For use with: T-400, T-410, T-420, T-460, T-462, T-465, T-440, ET1000 and ET4000.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
ET400DC-M150S	Collet – 1/4"
ET400DC-M195S	Collet – 3/8"
ET400DC-M230S	Collet – 1/2"

### 'Z' Series Collets

For use with: T-400

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
ET400DC-M245S*	Collet – 1/4"
ET400DC-M295S*	Collet – 3/8"
ET400DC-M375S*	Collet – 1/2"

\* Requires two ET400AR-001 base halves. Sold separately.

### 'Z' Series Collets

For use with: T-420, T-480 and ET1000.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-420-85C	Collet – 5/8"
T-420-86C	Collet – 3/4"
ET420DC-M380S	Collet – 1"
ET420DC-M480S	Collet – 1-1/4"

### 'Z' Series Collets

For use with: T-410, T-440 and ET4000.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-440-85C	Collet – 5/8"
T-440-86C	Collet – 3/4"
ET4000DC-M380S	Collet – 1"
ET4000DC-M480S	Collet – 1-1/4"

# Equipment

## Collet Kits



The Eaton tools listed are offered in kits for any given hose type, or collets and tools can be purchased individually by catalog number.

Refer to Crimp Bulletin # W-HOOV-TM001-E1 for proper spacer rings.



Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

**Note:**

See Crimp Bulletin #W-HOOV-TM001-E1 for proper Collet selection for hose style and size desired.

**Note:**

Collets may be ordered individually.

**T-400-30****'E' Series Collet Kit**

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462, T-465 and T-480.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-113C	Collet – 3/16" (H243 only)
T-400-31C	Collet – 1/4"
T-400-32C	Collet – 5/16"
T-400-33C	Collet – 3/8"

Spacer Rings not included in T-400-30 kit.

CATALOG NUMBER	DESCRIPTION
T-400-34C	Collet – 1/2"
T-400-35C	Collet – 3/4"
T-400-36C	Collet – 1"
FS-1200	Label Set/Layout Guide

**T-400-66****069 'E' Series Collet Kit**

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462, T-465 and T-480.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-54C	Collet – 3/16"
T-400-55C	Collet – 1/4"
T-400-56C	Collet – 5/16"
T-400-57C	Collet – 13/32"
T-400-58C	Collet – 1/2"

Spacer Rings not included in T-400-66 kit. See pg XXX for 1-13/16" collet.

CATALOG NUMBER	DESCRIPTION
T-400-59C	Collet – 5/8"
T-400-60C	Collet – 7/8"
T-400-61C	Collet – 1-1/8"
T-400-70	Collet – 1-3/8"
FS-1500	Label Set/Layout Guide

**T-400-67****'U' Series Collet Kit**

This kit can be used with the following C-O-C systems: ET1000, T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462, T-465, T-480 and ET1000.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-2C	Collet – 1/4"
T-400-3C	Collet – 3/8"
T-400-4C	Collet – 1/2"
T-400-64C	Collet – 5/8"

Spacer Rings not included in T-400-67 kit. \*Through size -12 only.

CATALOG NUMBER	DESCRIPTION
T-400-5C	Collet – 3/4"
T-400-6C	Collet – 1"
T-400-12	Collet – 1-1/4"
FS-1100	Label Set/Layout Guide

**T-400-137****229 'P' Series Collet Kit**

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462, T-465 and T-480.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-80C	Collet – 3/16"
T-400-82C	Collet – 13/32"

Spacer Rings not included in T-400-137 kit.

CATALOG NUMBER	DESCRIPTION
T-400-81C	Collet – 5/16"
T-400-83C	Collet – 1/2"

**T-400-104****338 'P' Series Collet Kit**

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462, T-465 and T-480.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-102C	Collet – 3/8"
T-400-103C	Collet – 1/2"

Spacer Rings not included in T-400-104 kit.

CATALOG NUMBER	DESCRIPTION
FS-2900	Label Set

# Equipment

## Collet Kits



**Note:**

See Crimp Bulletin # W-HOOV-TM001-E1 for proper Collet selection for hose style and size desired.

**Note:**

Collets may be ordered individually.



Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

### T-400-114 757 'E' Series Collet Kit

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462, T-465 and T-480.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-105C	Collet – 5/16"
T-400-107C	Collet – 1/2"

CATALOG NUMBER	DESCRIPTION
T-400-106C	Collet – 13/32"
T-400-108C	Collet – 5/8"

Spacer Rings not included in T-400-114 kit.

### T-400-129 336 'E' Series Collet Kit

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462 and T-480.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-120C	Collet – 3/16"
T-400-122C	Collet – 3/8"
T-400-121C	Collet – 1/4"

CATALOG NUMBER	DESCRIPTION
T-400-123C	Collet – 1/2"
FS-3500	Label Set

\* For size 3/4" order T-420-15C. For 1" size order T-420-16C. For use with T-420-1 and T-480-1 only.

### T-410-70 470 'E' Series Collet Kit

This kit can be used with the following C-O-C systems: T-410-1, T-440-1, ET4000 ONLY.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-470-8C	Collet – 1/2"
T-470-12C	Collet – 3/4"
T-470-16C	Collet – 1"
T-470-20	Collet – 1-1/4"

CATALOG NUMBER	DESCRIPTION
T-470-24	Collet – 1-1/2"
T-440-32*	Collet – 2"
FS-1800	Label Set/Layout Guide

\*.32 size requires T-440 or ET4000 system.

### T-410-80 430 'U' Series No Skive Collet Kit

This kit can be used with the following C-O-C systems: T-440-1 and ET4000 ONLY.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-410-4CN	Collet – 1/2"
T-410-5CN	Collet – 3/4"
T-410-6CN	Collet – 1"
T-410-7CN	Collet – 1-1/4"

CATALOG NUMBER	DESCRIPTION
T-410-8N	Collet – 1-1/2"
T-410-9N	Collet – 2"
FS-3100	Label Set

### T-420-70 470 'E' Series Collet Kit

This kit can be used with the following C-O-C systems: T-420-1 and T-480.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-420-8C	Collet – 1/2"
T-420-9C	Collet – 3/4"
T-420-10C	Collet – 1"

CATALOG NUMBER	DESCRIPTION
T-420-11	Collet – 1-1/4"
FS-1800	Label Set

### T-420-80 430 'U' Series No Skive Collet Kit

This kit can be used with the following C-O-C systems: T-420-1 and T-480

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-420-4CN	Collet – 1/2"
T-420-5CN	Collet – 3/4"
T-420-6CN	Collet – 1"

CATALOG NUMBER	DESCRIPTION
T-420-7CN	Collet – 1-1/4"
FS-3100	Label Set

# Equipment

## Collet Kits

**Note:**

See Crimp Bulletin # W-HOOV-TM001-E1 for proper Collet selection for hose style and size desired.

**Note:**

Collets may be ordered individually.



Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

### T-480-80 'U' and 430 'U' Series Collet Kit

This kit can be used with the following C-O-C systems: T-420-1, and T-480 ONLY.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-2C	Collet – 1/4"
T-400-3C	Collet – 3/8"
T-400-4C	Collet – 1/2"
T-400-5C	Collet – 3/4"
T-400-6C	Collet – 1"
T-400-10	Spacer Ring - Black
T-400-11	Spacer Ring - Silver

CATALOG NUMBER	DESCRIPTION
T-400-62	Spacer Ring - Yellow
T-420-25	Adapter Ring for T-400 Series Collets
T-420-4CN	Collet – 1/2"
T-420-5CN	Collet – 3/4"
T-420-6CN	Collet – 1"
T-420-7CN	Collet – 1-1/4"

Refer to Crimp Bulletin # W-HOOV-TM001-E1 for proper spacer rings.

### 069 'E' Series Collet Size 32

For use with:  
T-440 and ET4000 ONLY

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-410-71C	Collet – 1-13/16"

### 265 'P' Series Collets

For use with: T-400, T-420, T-460, T-462, T-465, T-440, ET4000, T-480.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-2C	Collet – 1/4" and 3/8"
T-400-3C	Collet – 1/2"

CATALOG NUMBER	DESCRIPTION
T-400-64C	Collet – 5/8"

### 4SP & 6SP Series Collets

For use with:  
T-440 and ET4000 ONLY

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
ET4000DC-4S12	Collet – 3/4"
ET4000DC-4S16	Collet – 1"
ET4000DC-4S20*	Collet – 1-1/4"
ET4000DC-4S24*	Collet – 1-1/2"
ET4000DC-4S32*	Collet – 2"

CATALOG NUMBER	DESCRIPTION
ET4000DC-6S20*	Collet – 1-1/4"
ET4000DC-6S24*	Collet – 1-1/2"
ET4000DC-6S32*	Collet – 2"

Qualified on ET4000 machine only.  
Requires ET4000AR-002 base adapter ring.



# Equipment

## Collet Kits



**Note:**

See Crimp Bulletin # W-HOOV-TM001-E1 for proper Collet selection for hose style and size desired.

**Note:**

Collets may be ordered individually.

**T-410-27 • Conversion Kit**

For use if you have collets used on our smaller T-400 Coll-O-Crimp I and you are upgrading to an ET4000.

**Example:**

If you desire to crimp hose other than 4 or 6 spiral hose, you will need the T-410-25 Adapter Die Ring which is included in the conversion kit. This ring allows the use of standard Coll-O-Crimp I tooling, in the Coll-O-Crimp II Plus and ET4000 Press.



Refer to safety information regarding Coll-O-Crimp hose fittings and assembly equipment compatibility on page 4.

If you have a Coll-O-Crimp II Plus or ET4000 press and would like to be able to crimp 'U' Series hose ends, order T-410-27 conversion kit and T-400-67 for all the collets. Collets and tools may also be purchased individually by catalog number.

Kit includes one each of the following:

**CATALOG**

**NUMBER DESCRIPTION**

T-410-10	Spacer Ring Black
T-410-11	Spacer Ring Silver
T-410-25	Adapter Die Ring
T-410-41	Spacer Ring Yellow

**Adapter Die Rings**

**CATALOG**

**NUMBER DESCRIPTION**

T-400-8	Adapter Die Ring for T-400 Collets (T-400-1 Press)
T-410-25	Adapter Die Ring for T-400 Collets (ET4000, T-440-1 Presses)
T-420-25	Adapter Die Ring for T-400 Collets (T-420-1 Press and T-480 Packages)
ET1000-AR-001	Adapter Die Ring for T-400 Collets (ET1000 Press)

**Collet Cage Replacements**

**CATALOG**

**NUMBER DESCRIPTION**

T-400-13	Replacement collet cages for: T-400-2C, T-400-3C, T-400-80C, T-400-81C, T-400-82C, T-400-83C, T-400-100C, T-400-101C
T-400-14	Replacement collet cages for: T-400-4C, T-400-5C, T-400-6C, T-400-64C, T-400-105C, T-400-106C, T-400-107C, T-400-108C, T-400-109C, T-400-110C, T-400-111C, T-400-120C, T-400-121C, T-400-122C, T-400-123C
T-400-15	Replacement collet cages for: T-400-31C, T-400-32C, T-400-46C, T-400-47C, T-400-102C, T-400-103C, T-400-113C
T-400-90	Replacement collet cages for: T-400-33C, T-400-34C, T-400-35C, T-400-36C, T-400-48C, T-400-49C, T-400-54C, T-400-55C, T-400-56C, T-400-57C, T-400-58C, T-400-59C, T-400-60C, T-400-61C
T-420-14NS	Replacement collet cages for: T-410-4CN, T-410-5CN, T-410-6CN, T-410-7CN, T-410-72CN, T-410-73CN, T-420-4CN, T-420-5CN, T-420-6CN, T-420-7CN
T-420-14	Replacement collet cages for: T-410-4C, T-410-5C, T-410-6C, T-410-7C, T-410-8C, T-420-4C, T-420-5C, T-420-6C, T-420-7C, T-420-8C, T-420-9C, T-420-10C, T-420-30C, T-470-8C, T-470-12C, T-470-16C
ET4000CC-W1	
ET400	
ET420	
ET4000	

**Note:**

These items are half cages. Order 2 for complete cage.

**Die Ring Lubricant**

**CATALOG**

**NUMBER DESCRIPTION**

T-400-G	1.5 oz. Tube High Efficiency Grease
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APPLICATION DATA

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES & ASSEMBLY INSTRUCTIONS


ADAPTERS & TUBE HOSE ENDS

HOSE ASSEMBLY EQUIPMENT

TECHNICAL DATA

# Equipment

## Spacer Rings

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

**Note:**

See Crimp Bulletin # W-HOOV-TM001-E1 for proper Spacer Ring selection for hose style and size desired.

**Note:**

Spacer rings may ONLY be ordered individually, no sets available.

For use with  
T-400, T-460, T-462, T-465

\* T-400 machine only

CATALOG NUMBER	COLOR (5" DIA.)	CATALOG NUMBER	COLOR (5" DIA.)	CATALOG NUMBER	COLOR (5" DIA.)
T-400-10	Black	T-400-45R*	Black/Yellow	ET1000SR-M100A	Purple
T-400-11	Silver	T-400-46R	Black/Tan	ET1000SR-M190D	Lt. Green
T-400-112	Tan	T-400-47R	Black/Red	ET1000SR-M215A	Magenta
T-400-37	Green	T-400-48R*	Black/Orange	ET400SR-001*	Black/Red
T-400-38	Red	T-400-49R	Black/Silver	ET400SR-002*	Black/Green
		T-400-62	Yellow	ET400SR-003*	Black/Purple

For use with  
T-420

CATALOG NUMBER	COLOR (5" DIA.)	CATALOG NUMBER	COLOR (5" DIA.)	CATALOG NUMBER	COLOR (5" DIA.)
T-400-10	Black	T-400-47R	Black/Red	ET1000SR-M100A	Purple
T-400-11	Silver	T-400-62	Yellow	ET1000SR-M190D	Lt. Green
T-400-112	Tan	T-420-29	Orange	ET1000SR-M215A	Magenta
T-400-37	Green	T-420-80R	Black/White	ET420SR-M255A	Blk/Grey
T-400-38	Red	T-420-81R	Black/Orange	ET420SR-M495A	Brown
T-400-46R	Black/Tan	T-420-82R	Black/Blue	ET420SR-M660A	Pink

For use with  
T-480

CATALOG NUMBER	COLOR (5" DIA.)	CATALOG NUMBER	COLOR (5" DIA.)	CATALOG NUMBER	COLOR (5" DIA.)
T-400-10	Black	T-400-62	Yellow	ET1000SR-M100A	Purple
T-400-11	Silver	T-420-29	Orange	ET1000SR-M190D	Lt. Green
T-400-112	Tan	T-420-80R	Black/White	ET1000SR-M215A	Magenta
T-400-37	Green	T-420-81R	Black/Orange	ET420SR-M255A	Blk/Grey
T-400-38	Red	T-420-82R	Black/Blue	ET420SR-M495A	Brown
T-400-46R	Black/Tan	T-480-68	Blue	ET420SR-M660A	Pink
T-400-47R	Black/Red	ET1000C-0012	Blue		

For use with  
T-410, T-440, ET4000

CATALOG NUMBER	COLOR (6" DIA.)	CATALOG NUMBER	COLOR (6" DIA.)	CATALOG NUMBER	COLOR (5" DIA.)
T-410-10	Black	T-410-93	Orange	ET4000SR-M180A	Blk/Purple
T-410-11	Silver	T-440-78R	Black/Tan	ET4000SR-M050A	Blk/Green
T-410-12	White	T-440-79R	Black/Red	ET4000SR-M560A	Pink
T-410-39	Green	T-440-80R	Black/White	ET4000SR-M100A	Purple
T-410-40	Red	T-440-81R	Black/Orange	ET4000SR-M405A	Brown
T-410-46R	Yellow	T-440-82R	Black/Blue	ET4000SR-M345A	Blk/Brown
T-410-47R	Tan	ET4000SR-M215A	Blk/Magenta	ET4000SR-M190D	Lt. Green

For use with  
ET1000

CATALOG NUMBER	COLOR (5" DIA.)	CATALOG NUMBER	COLOR (5" DIA.)	CATALOG NUMBER	COLOR (5" DIA.)
T-400-10	Black	T-400-62	Yellow	ET1000SR-M100A	Purple
T-400-11	Silver	T-420-80R	Black/White	ET1000SR-M190D	Lt. Green
T-400-37	Green	T-420-81R	Black/Orange	ET1000SR-M215A	Magenta
T-400-46R	Black/Tan	T-420-82R	Black/Blue	ET420SR-M255A	Blk/Grey
T-400-47R	Black/Red	ET1000C-0012	Blue	ET420SR-M495A	Brown
				ET420SR-M660A	Pink

## Equipment

### Coll-O-Crimp Pumps

#### T-481-110 Electric Pump (110 volt)

For use with T-480-EP,  
ET10000



#### T-433 Two Stage Piston Pump (220v)

For use with T-407  
Production Press, T-400-1  
or T-420-1.



#### T-402-2 Air/Hydraulic Pump

For use with T-400-1.



#### T-403-2 Hand Pump

For use with T-400-1.



#### Pump Specifications:

**Dimensions:** 14-14" High x  
9-5/8" long x 9-5/8" wide

**Weight:** 32 lbs.

**Operation Pressure:**  
0-10,000 PSI

**Hydraulic Oil:**  
Use Enerpac Oil ONLY

#### T-482-2 Air/Hydraulic Pump

For use with T-480-AH,  
ET1000



#### Pump Specifications:

**Dimensions:**  
22" high, 12" long, 15" long

**Weight:** 127 lbs.

**Operation Pressure:**  
4,000 PSI

**Reservoir Capacity:**  
2 gallons

**Outlet Port Size:**  
3/8" Pipe Thread

**Motor:** 1-1/2" H.P.,  
220 volts 60hz single phase

The Weatherhead T-433 two stage piston pump power unit is a high capacity pump especially suited for the T-407 Production crimper. It features a two stage piston pump providing high flow at low pressure for fast ram approach and low flow at high pressure for actual crimping. When used in conjunction with the T-433-2 connector cable, the T-433 can be used as an optional high capacity pump for the T-400-1 or T-420-1 Coll-O-Crimp presses.

#### Pump Specifications:

**Dimensions:**

5-1/4" high, 12-1/2" long,  
5" wide

**Weight:** 18 lbs.

**Operation Pressure:**  
4000-4200 PSI

**Reservoir Capacity:** 1 pint

**Hydraulic Oil:** Use Enerpac  
Oil ONLY

#### Outlet Port Size:

3/8" NPT

#### Inlet (Air) Port Size:

1/4" NPT

#### Inlet Air Pressure

**Required:** 60 to 120 PSI

#### Pump Specifications:

**Dimensions:** 7 high, 21"  
long, 4-3/4" wide

**Weight:** 9 lbs.

**Operation Pressure:**  
4000-4200 PSI

**Reservoir Capacity:** 1 qt.

**Outlet Port Size:** 3/8"

**NPT Hydraulic Oil:**  
Use Enerpac Oil ONLY

#### Pump Specifications:

**Dimensions:** 5" High,  
14-5/8" long, 5-5/8" wide

**Weight:** 12 lbs.

**Operation Pressure:**  
0-10,000 PSI

**Hydraulic Oil:** Use Enerpac  
Oil ONLY

#### Hydraulic Oil:

Use Enerpac Oil ONLY

**Flow:** 2.78 GPM @ 800  
PSI, 0.52 GPM @ 4000 PSI

#### Replacement Parts:

**T-421-FP** 220v 4 wire Female  
electrical receptacle.  
See page 292.

**T-433-2** Interlock Cable

**T-433-1** Foot Switch Assembly

#### Note:

It is recommended that a filter, regulator, lubricator and air pressure gauge be installed in the air line as close as possible to the pump. Filter, Regulator and Lubricator units not included.

Some models have air port on right side.

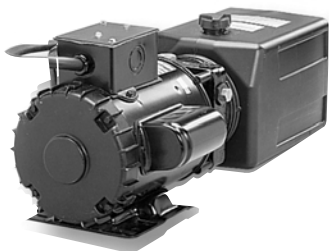
For repair and replacement items for the following pumps please contact an Enerpac Distributor at [www.enerpac.com](http://www.enerpac.com): T-402-2, T-403-2, T-481-110 & T-482-2.

# Equipment

## Coll-O-Crimp Pumps

### T-421U Electric Pump (220 Volt)

For use with T-400-1 and T-420-1.



**Note:**

It is recommended that the electric pump be used on a 15 amp. fused circuit. Pump wired for 220 volts, single phase.

**Pump Specifications:**

**Dimensions:** 7-1/2" high, 22" long, 10" wide

**Weight:** 75 lbs.

**Operation Pressure:** 4000-4200 PSI

**Reservoir Capacity:** 6 quarts

**Outlet Port Size:** 3/4"-16 Straight Thread

**Motor:** 1 H.P., 3450 R.P.M., 220 volts, 60 cycle, single phase

At 50 Hertz, RPM = 2,850  
At 60 Hertz, RPM = 3,450

**Hydraulic Oil\*:** ISO 32 hydraulic oil or (ATF) automatic transmission fluid

**Flow:** 2.5 GPM @ 750 PSI, 0.5 GPM @ 4000 PSI

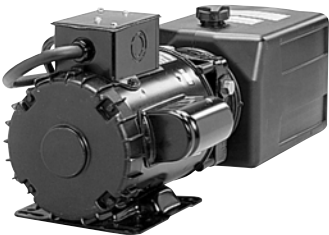
**Replacement Parts:**

CATALOG NUMBER	DESCRIPTION
140-06761	Relay for T-421U, T-441 and T-441 pumps only
T-421U-BC	Breather Cap
T-421-FP	220v 4 wire Female electrical receptacle

\*For low temperature applications automatic transmission fluid can be substituted.

### T-421U-110 Electric Pump (110 Volt)

For use with T-400-1 and T-420-1.



For dimensional data other than voltage information, refer to T-421U see above.

**Note:** It is recommended that the electric pump be used on an individual 30 amp. fused circuit.

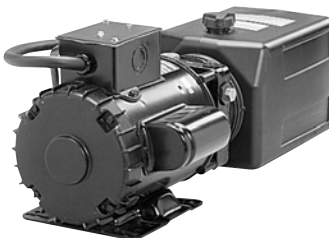
Pump wired for 110 volts, single phase.

**Replacement Parts:**

CATALOG NUMBER	DESCRIPTION
T-421U-BC	Breather Cap
T-421-FP	220v 4 wire Female electrical receptacle

### T-441 Electric Pump (220 Volt)

For use with T-440-1 only.



The Weatherhead T-441 power unit is designed for use with the latest Coll-O-Crimp II Plus press. It features a two-stage pump providing high flow at low pressure for fast ram approach and low flow at high pressure for actual crimping.

**Pump Specifications:**

**Dimensions:** 7-1/2" high, 22" long, 10" wide

**Weight:** 75 lbs.

**Operation Pressure:** 5,000 PSI

**Reservoir Capacity:** 6 quarts

**Outlet Port Size:** 3/4"-16 Straight Thread O-Ring

**Motor:** 1 H.P., 3450 R.P.M., 220 volts, 60 cycle, single phase

**Hydraulic Oil:** ISO 32 hydraulic oil automatic transmission fluid

**Flow:** 2.5 GPM @ 750 PSI, 0.5 GPM @ 5000 PSI

**Replacement Parts:**

T-421U-BC	Breather Cap
T-421-FP	220v 4 wire Female electrical receptacle. See page 292.
140-06761	Relay for T-421U or T-421U-110 pumps

**Note:**

T441 pump is to be used with T440-1 and ET4000 press only. When replacing the pump on a standard T-410 Coll-O-Crimp II Press (without the black switchbox on the side of the press) refer to the repair and replacement items on page 383.)

## Equipment

### Coll-O-Crimp Pumps

#### T-460-2 Hand Pump

For use with T-450-1, T-460 and T-465



#### Pump Specifications:

**Dimensions:** 5-5/8" High, 13-1/4" long, 3-3/4" wide

**Weight:** 4-1/2 lbs.

**Operation Pressure:** 0-10,000 PSI

**Reservoir Capacity:** 20 cu in.

**Relief Valve Setting:** 10,000 PSI

**Hydraulic Oil:** Use Enerpac Oil ONLY

#### Note:

For repair and replacement items for the following pumps please contact an Enerpac Distributor at

[www.enerpac.com](http://www.enerpac.com):

T-402-2, T-403-2, T-433, T-460-2, T-462-2, T-480-2, T-480-3, T-481-110 & T-482-2.

#### T-480-2 Two-Stage Hand Pump

For use with T-480-HP, ET1000



#### Pump Specifications:

**Dimensions:** 7-3/16" high x 21-1/64" long x 4-3/4" wide

**Weight:** 9 lbs.

**Operation Pressure:** 0-10,000 PSI

**Hydraulic Oil:** Use Enerpac Oil ONLY

#### T-462-2 Air/Hydraulic Pump

For use with T-462.



The Weatherhead T-462-2 power unit is a air/hydraulic pump designed for use with the T-462 portable system. Ideal if you have the availability of compressed air in your shop or in the field via a portable compressor.

#### Pump Specifications:

**Dimensions:** 4" high, 13" long

**Weight:** 8 lbs.

**Operation Pressure:** 0-10,000 PSI

**Reservoir Capacity:** 10 cu in.

**Relief Valve Setting:** 10,000 PSI

**Hydraulic Oil:** Use Enerpac Oil ONLY

Regulator to be set for 100-120 PSI inlet air.

#### T-480-3 Turbo Air/Hydraulic Pump

For use with T-480-TA.



#### Pump Specifications:

**Dimensions:** 8-1/4" High x 12-3/8" long x 8" wide

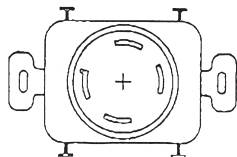
**Weight:** 16-1/2 lbs.

**Operation Pressure:** 0-10,000 PSI

**Hydraulic Oil:** Use Enerpac Oil ONLY

For repair and replacement items for the following pumps please contact an Enerpac Distributor at [www.enerpac.com](http://www.enerpac.com): T-402-2, T-403-2, T-460-2, T-462-2, T-480-2, T-480-3, T-481-110 & T-482-2.

#### T-421-FP 4 Prong Female Electrical Outlet



All Weatherhead 220v Coll-O-Crimp power pumps are equipped with a four prong electrical outlet as illustrated.



To obtain corresponding female wall receptacle order T-421-FP. For use with T-421U, T-441 & T-433 pumps.

#### Repair and Replacement Items for Discontinued T-401-1 Pump

CATALOG NUMBER	DESCRIPTION
T-401-1BC	Breather Cap for Fenner-Stone pumps
T-401-1S	Toggle Switch
T-401-SVF	Shuttle Valve for Fenner-Stone pump



## Equipment

### Conversion Tooling

#### T-400-NP60 Dayco to Weatherhead Conversion Kit



See pages 388-394 for collets and spacer rings.

The T-400-NP60 Conversion Kit is designed to allow the use of standard Weatherhead Coll-O-Crimp tooling, hose and hose ends in the Dayco NP60, (2) tie rod, crimp machine. Everything is included to convert the crimper to accept Weatherhead tooling. This kit gives the crimper capacity to crimp up to and including 1-1/4" I.D. 4 spiral wire hose assemblies.

##### T-400-NP60 Kit Includes:

PART DESCRIPTION	QTY
Base Plate Assembly	1
Dayco Pusher Spacer	1
3/8-16 x 1.75 Cap Screw	1
Adapter Ring for T-400 Collets	1
Instruction Kit	1

#### T-400-DE60 Dayco to Weatherhead Conversion Kit



See pages 388-394 for collets and spacer rings.

The T-400-DE60 Conversion Kit is designed to allow the use of standard Weatherhead Coll-O-Crimp tooling, hose and hose ends in the Dayco DE60, (4) tie rod, crimp machine. Everything is included to convert the crimper to accept Weatherhead tooling. This kit gives the crimper capacity to crimp up to and including 1-1/4" I.D. 4 spiral wire hose assemblies.

##### T-400-DE60 Kit Includes:

PART DESCRIPTION	QTY
Base Plate Assembly	1
Dayco Pusher Spacer	1
3/8-16 x 1.75 Cap Screw	1
Adapter Ring for T-400 Collets	1
Instruction Kit	1

#### T-400-GT Gates PC707 Conversion Kit



The T-400-GT Conversion Kit is designed to allow the use of standard Weatherhead Coll-O-Crimp tooling, hose, and hose ends in the Gates PC707 crimper. Everything is included to convert the crimper to accept Weatherhead tooling. This kit gives the crimper capacity to crimp up to and including 1-1/4" I.D. 2 wire hose factory-type hose assemblies. **This kit does not include the T-400-8 Die Ring which is required for crimping.** If you do not already have the die ring or collets, you can order the kit to the right.

##### T-400-GT kit includes:

Pusher, 10-24 x 1/4 Set Screws (2), Spacer (2), Instructions

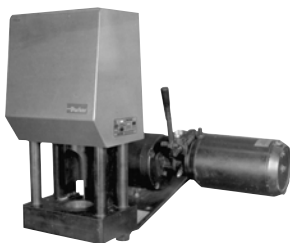
##### T-400-GTK • Gates PC707 Conversion Kit

Kit includes one each of the following:

##### CATALOG NUMBER DESCRIPTION

T-400-GT	Conversion Kit
T-400-2C	'U' Series Collet - 1/4"
T-400-3C	'U' Series Collet - 3/8"
T-400-4C	'U' Series Collet - 1/2"
T-400-5C	'U' Series Collet - 3/4"
T-400-6C	'U' Series Collet - 1"
T-400-8	Die Ring - 3/16" thru 1-1/4"
T-400-10	Spacer Ring - Black
T-400-11	Spacer Ring - Silver

#### T-400-PH Parker 80c Conversion Kit



The T-400-PH Conversion Kit is designed to allow the use of standard Weatherhead Coll-O-Crimp tooling, hose, and hose ends in the Parker 80c crimper. Everything is included to convert the crimper to accept Weatherhead tooling. This kit gives the crimper capacity to crimp up to and including 1-1/4" I.D. 2 wire hose factory-type hose assemblies. If you do not already have the collets and spacer rings, you can order the kit to the right.

##### T-400-PH Kit includes:

1/4-20 x 1 Cap Screw (4), Dowel Pin Spacer (2), 1/4" Lockwasher (4), Spacer Bracket (4), Adapter Die Ring, Instructions

##### T-400-PHK • Parker 80c Conversion Kit

Kit includes one each of the following:

##### CATALOG NUMBER DESCRIPTION

T-400-PH	Conversion Kit
T-400-2C	'U' Series Collet - 1/4"
T-400-3C	'U' Series Collet - 3/8"
T-400-4C	'U' Series Collet - 1/2"
T-400-5C	'U' Series Collet - 3/4"
T-400-6C	'U' Series Collet - 1"
T-400-10	Spacer Ring - Black
T-400-11	Spacer Ring - Silver



Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on page 4.

# Equipment

## Cabinets

### C-40X Stock Cabinet



Ideal for mounting the T-400-1 Coll-O-Crimp I Press and Pump or T-420-1 Coll-O-Crimp Super I. The sturdy C-40X Cabinet contains 40 heavy-duty plastic drawers that can be divided into one, two, three, or four compartments providing space for a large selection of Coll-O-Crimp hose ends and adapters.

**Drawers: PD-40**  
(one drawer)

**Dividers: PD-20**  
(24 per set)

**Size:** 46-1/2" high, 40" wide, 26" deep at base, 18" deep at top

**Weight:** 228 lbs.

### FH-135X Stock Cabinet



The sturdy FH-135X Cabinet contains 50 heavy-duty plastic drawers that can be divided into one, two, or three compartments allowing you ample space for a large selection of Coll-O-Crimp hose ends and adapters. Ideal for mounting the Coll-O-Crimp I Press and Pump.

**Drawers: PD-95**  
(one drawer)

**Dividers: PD-15** (30 per set)

**Size:** 46-1/2" high, 33" wide, 14-1/2" deep

**Weight:** 115 lbs.

### FH-15X Stock Cabinet



Here is the ideal way to organize your inventory of hose ends and adapters. The rugged FH-15X Cabinet contains 15 plastic drawers for stocking hose ends and adapters.

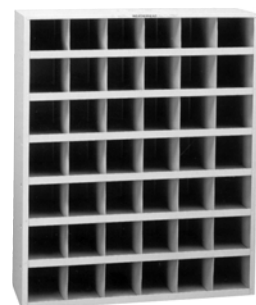
**Drawers: PD-95**  
(one drawer)

**Dividers: PD-15**  
(30 per set)

**Size:** 13-5/8" high, 14-3/8" deep, 30-1/4" wide

**Weight:** 45 lbs.

### FH-40X Stock Cabinet



Provides convenient storage areas for those large size fittings and hose ends. This durable 20 gage steel cabinet is made to handle abuse.

**Size:** 35" wide, 42" high, 12" deep

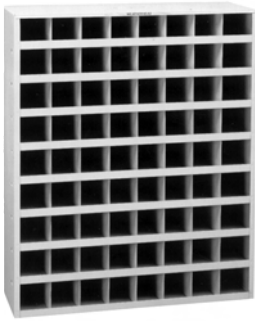
**Weight:** 200 lbs.

**Note:** Will not support Weatherhead Coll-O-Crimp equipment.

# Equipment

## Cabinets

### FH-72X Stock Cabinet



Large capacity all-welded cabinet provides 72 storage compartments. Fabricated from 20 gage steel, the FH-72X will provide years of continued service.

**Size:** 35" wide, 42" high, 12" deep

**Weight:** 200 lbs.

**Note:** Will not support Weatherhead Coll-O-Crimp equipment.

### C-5X Stock Cabinet



This mini-cabinet is designed to contain your oversized Weatherhead hose ends which may not currently have an organized home.

**Size:** 30" wide, 5-7/8" high, 9-5/16" deep

**Weight:** 10 lbs.

### TC-20 Collet Cabinet



The TC-20 Cabinet provides you easy access to all of your tooling needs. There is ample space for collets, spacer rings, and related Coll-O-Crimp tooling.

**Size:** 28-1/2" high, 26-1/2" wide, 12-3/4" deep

**Weight:** 37-1/2 lbs.

### HD-1X Hose Cabinet



The HD-1X Cabinet offers you the ideal solution for keeping 50 foot lengths of hose off your floor. Vertical slots in the cabinet keep your hoses organized and clean. Consider bolting an FH-15X Stocking Cabinet on top of the HD-1X to keep an inventory of hose ends readily available.

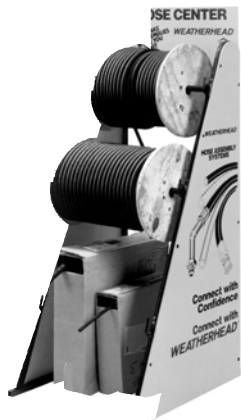
**Size:** 36" high, 24" deep, 31" wide

**Weight:** 83 lbs.

# Equipment

## Cabinets and Bags

### HD-2X Hose Center Display



The HD-2X hose display is built with a heavy steel inner frame which supports the weight of the hose reels, while its tough wooden sides provide additional durability. It is designed to hold both Weatherhead bulk reels and boxed product. Handles are even provided to make loading the hose as safe and easy as possible.

**Measurements:** 22" wide x 30" deep x 57" tall

**Weight:** 54 lbs. (UPS Shipping)

**Max. Capabilities:** (3) Reels or (2) Reels & (4) Boxes (Hose not included)

### T-460-10BB Coll-O-Crimp Tool Box



The T-460-10BB Tool Box complements our T-460 and T-462 portable crimpers by offering you storage for your collets, spacer rings, and perhaps an assortment of hose ends.

**Measurements:** 25"x9"x8"

### T-460-TR Tool Rack



The T-460-TR wall mounted tool rack is rugged and built to last! The perfect shop accessory for Coll-O-Crimp machines, the T-460-TR stores up to 10 collets and 4 spacer rings- organized and within easy reach.

(The T-460-TR rack does not include tooling)

**Measurements:** 24 -1/2" Wide x 16" High x 7-1/2" Deep

**Weight:** 16 lbs.

### Plastic Bags



Weatherhead heavy duty plastic bags for Weatherhead fittings come in sizes 5"x6", 6"x10", and 8"x12". The bags include convenient spaces for labeling.

CATALOG NUMBER	DESCRIPTION	QTY
5x6 PB	Plastic Bag	100
6x10 PB	Plastic Bag	100
8x12 PB	Plastic Bag	100

# Equipment

## Label Sets

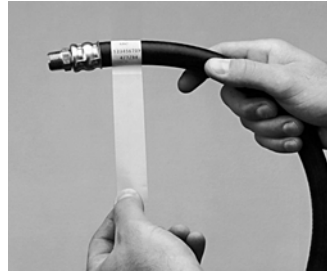
### Self Adhesive Label Sets



For C-40X, FH-15X and FH-135X Cabinets

LABEL NUMBER	DESCRIPTION
FS-100	Swivel Adapters
FS-200	JIC Steel Adapters
FS-300	Split Flange Adapters
FS-400	Field Attachable Hose Ends – 009 'B' Series
FS-500	Barb-Tite® 100 'B' and 105 'B' Series Hose Ends
FS-600	Field Attachable Hose Ends – 069 'D' & 247 'N' Series
FS-700	Field Attachable Hose Ends – 425 'N' Series
FS-800	Field Attachable Hose Ends – 338 'B' Series & Brass
	Air Brake Fittings for Copper Tubing
FS-1100	Coll-O-Crimp Hose Ends – 'U' Series
FS-1200	Coll-O-Crimp Hose Ends – 'E' Series
FS-1500	Coll-O-Crimp Hose Ends – 069 'E' Series
FS-1600	7000 Series Flareless Fitting
FS-1800	Coll-O-Crimp Hose Ends – 470 'E' Series and 570 'S' Series
FS-2000	Steel Pipe
FS-2200	Ready-Lok Hose Ends and Adapters
FS-2300	Drain Cocks, Valves and Select 338 'B' Series Hose Ends
FS-2400	FOR-SEAL Adapters Label Set
FS-2500	Metric Hose Ends ('U' Series) and Metric Flareless Nuts/Sleeves
FS-2800	Field Attachable Hose Ends – 213 'N' Series
FS-2900	Coll-O-Crimp Hose Ends – 338 'P' Series
FS-3100	Coll-O-Crimp Hose Ends – 430 'U' Series No-Skive
FS-3200	Coll-O-Crimp Hose Ends – 757 'E' Series
FS-3300	Quick Connect Air Brake 1800 Series
FS-3500	Coll-O-Crimp Hose Ends – 336 'E' Series
FF90645	WeatherGRIP Hose Ends - 'Z' Series
FF90646	E-Z Clip Label Set

### A-2103 Mylar Hose Labels



Eaton now offers Mylar labels for marking hose assemblies. They are self adhesive Mylar strips, 1" wide by 3-3/4" long, with a 1" x 1" white area on one end for printed information. They are supplied on a fan-folded computer form, 3 labels per row, 8 rows per page, 2500 labels to a carton. The format is suitable for use in typewriters and tractor feed or friction drive printers.

Whether for compliance with federal hose assembly labeling requirements, or for simply meeting customer demands for labeling hose assemblies, we strongly recommend labeling become part of your hose assembly "manufacturing" procedure. The National Highway Traffic Safety Administration places responsibility for labeling an air brake hose assembly in the hands of the "manu-

facturer" of the hose assembly. (Not the manufacturer of the hose or hose ends.) For a summary of air brake hose assembly labeling recommendations, see "Air Brake Hose Assembly Guidelines." For specific air brake hose assembly regulations, consult "Federal Motor Vehicle Safety Standard (FMVSS) 571.106," available from NHTSA, at the address listed below. For use other than air brake applications, customers may want additional information on the labels. Generally, the labels will accept 9-10 characters per row, on 4 or 5 rows. The information can be handwritten, typed or printed on the labels. The main concern is resistance to the elements. Procedure for applying the labels is simple:

1. Print the appropriate information on the label.
2. Wrap the tag around the hose assembly; printed end first.
3. Cover the printed end with the clear mylar tail of the label.
4. The clear tail will protect the printed area from the elements.

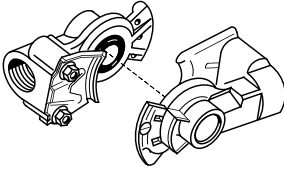
Office Of Vehicle  
Safety Standards  
National Highway Traffic  
Safety Administration  
400 Seventh Street SW  
Washington, DC 20590  
Phone (202) 366-5317  
[www.nhtsa.dot.gov](http://www.nhtsa.dot.gov)



# Equipment

## Air Brakes

### Gladhand Couplings



- Die cast aluminum body
- Conforms to SAE J318
- Connects to 1/2" pipe
- Includes seal

CATALOG NUMBER	DESCRIPTION
W79850	SERVICE (Signal) (Blue clip; Connects only to service)
W79851	EMERGENCY (Supply line) (Red clip; Connects only to emergency)
W76150	UNIVERSAL (Connects to all three styles)

### Gladhand Seal

For use with W79850, W79851, W76150.



CATALOG NUMBER	DESCRIPTION
W14630	

APPLICATION DATA

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES & ASSEMBLY INSTRUCTIONS

ADAPTERS & TUBE HOSE ENDS

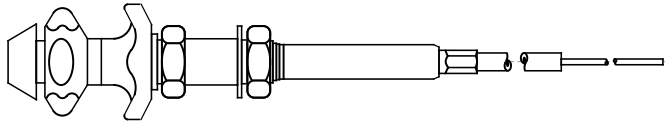
HOSE ASSEMBLY EQUIPMENT

TECHNICAL DATA

# Equipment

## Cable Controls

### Vernier Controls



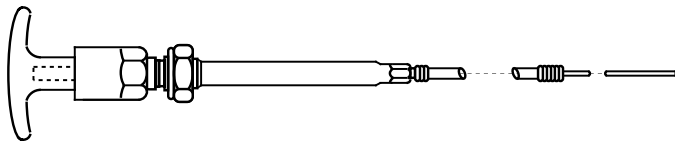
**Catalog Number: 8374**

Advanced styling. Meets or exceeds OEM specifications. Non-Corrosive aircraft aluminum body and stainless steel shaft assures 400 hour salt spray test without corrosion.

A direct replacement for most "Remote Throttle Controls"; Mack Truck

21QB-180 Series, Kenworth K068B Series, Peterbilt 05-1462 Series, Volvo-White 13401 Series, I.H. 34084 Series, Muncie COCL Series BPC VCG Series. Also replaces most Garage and Service Station Wreckers remote control throttles; Earnest Holmes, Dover, etc.

### Turn-To-Lock Controls (T-Locking)

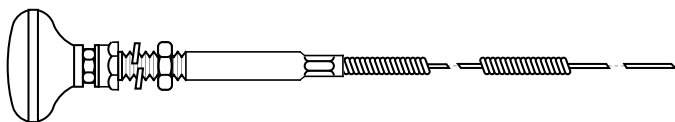


**Catalog Numbers: 8370, 8371**

Positive action control for small to mid-size engine throttles, governors, chokes, fuel shut-offs and more.

Aluminum body assures rust free performance. Patented Acetal Locking bushing guarantees never before possible settings with one third operator effort. Replaces Muncie COCL Series, and BPC R09 Series.

### Power Take Off Controls (Ball Knob)

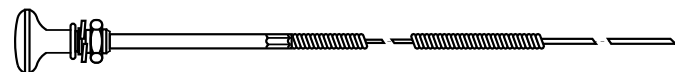


**Catalog Numbers: 8372, 8373**

Utility grade as exact replacement for most P.T.O. Controls.

Features 2" Round Knobs, Galvanized Steel, vinyl covered casing and steel inner wire. All P.T.O. Controls meet or exceed OEM specifications. Replaces BPC R-38DS, R04, R38 and R38D Series, Muncie COKB Series.

### Utility Light Load Controls (Dash)



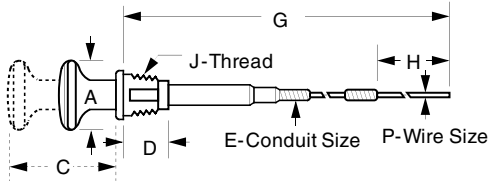
**Catalog Numbers: 8375, 8376, 8377, 8378**

Universal light load Choke, Fuel-Shutoff, Throttle, Hood, Trunk and more! Controls are designed for most engine applications. Stainless steel inner-wire resists corrosion and assures trouble free operation. Vinyl coated.

# Equipment

## Cable Controls

### Throttle Stop



CATALOG NUMBER	DESCRIPTION
1548	

### SPECIFICATION CHART ON WEATHERHEAD "PUSH-PULL" CONTROLS

DESCRIPTION	DASH				T-HOOD	T-LOCKING	PTO CONTROL		VERNIER	DELUXE PTO CONTROL		
Catalog Number	8375	8376	8377	8378	8367	8370	8371	8372	8373	8374	106370	106470
Length of "G"	84"	84"	84"	60"	180"	126"	186"	81"	165"	120"	192"	300"
Length of Wire "H"	9-3/8"	9-3/8"	9-3/8"	7"	5"	6"	6"	3"	3"	4-1/2"	12"	12"
Knob Type	Round				T-Handle	T-Handle		Round		Round	Round	
Knob Size "A"	1.06"				2"			2"		2"	2"	2"
Knob Color	Black				Chrome	Chrome		Black		Black	Red	
Knob Material	Plastic				Cast Zinc	Nylon		Plastic		Plastic	Plastic	
Knob Lettering	Choke	Throttle	None	None	None	Lock		None		None	None	
Knob Travel "C"	2-1/2"				2-1/2"	3"		3-1/2"		3-3/8"	4-1/2"	
Thread Size "J"	3/8"-24				3/8"-24	7/16"-20		7/16"-20		3/4"-16	1/2"-20	
Thread Length "D"	1/2"				1/2"	3/4"		1-5/32"		2-1/2"	1-1/8"	
Conduit Size "E"	3/16"				3/16"	3/16"		1/4"		1/4"	3/8"	
Conduit Material & Style	Galvanized Steel				Steel	Galvanized Steel		Galvanized Steel		Galvanized Steel	High Carbon	
	Vinyl	Vinyl	Vinyl	Vinyl	Cover	Vinyl Covered		Vinyl Covered		Vinyl Covered	Polyethylene Lining & Cover	
Wire Size "P"	.054"				.054"	.054"		.088"		.0625"	.088"	

APPLICATION DATA

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES & ASSEMBLY INSTRUCTIONS

ADAPTERS & TUBE HOSE ENDS

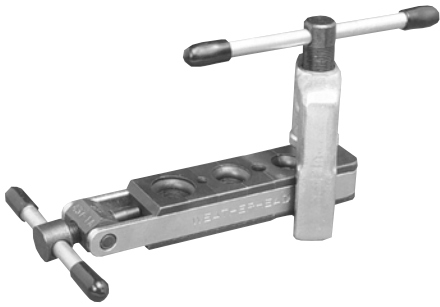
HOSE ASSEMBLY EQUIPMENT

TECHNICAL DATA

# Equipment

## Tube Flaring Tools

### T-1290 • Segmented Flaring Tool (37°)

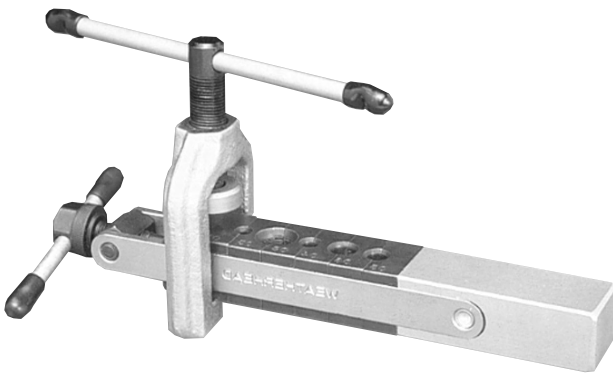


Hard chrome finished cone makes exceptionally smooth flares and minimizes amount of effort needed. Forged steel yoke for maximum strength. Sliding die blocks lock in place by lever clamp action.

**Flaring Capacity:** 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. Forms 37° SAE flares in soft copper, aluminum, brass and Bundyweld tubing.

**Weight:** 1 lb., 11 oz.

### T-1295 • Heavy-Duty Segmented Flaring Tool (37°)



Ideal for use where considerable number of 37° flares in stainless steel tubing must be made. Built to withstand continuous rugged service. Ball thrust mechanism reduces effort required. Hardened tool steel die features non-slip grip of tubing – even after repetitive flaring. Bar has vise extension.

**Flaring Capacity:** 1/8", 3/16", 1/4", 5/16", 3/8", and 1/2", O.D. tubing. Forms 37° SAE flares in annealed stainless steel (MIL-T-6845 or AMS-5566), cold drawn stainless steel, and annealed copper, brass, steel or aluminum.

**Weight:** 3 lbs.